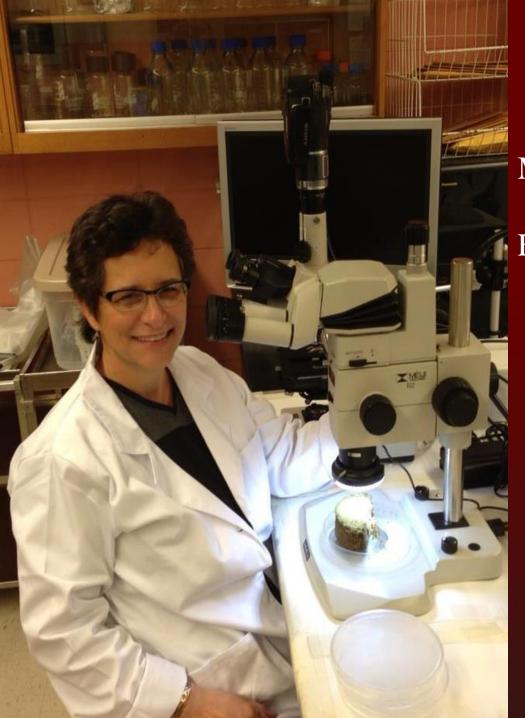
Emerging diseases of centipedegrass on home lawns in the Gulf Coast states

Phillip L. Vines and Maria Tomaso-Peterson

68th Annual Southeastern Turfgrass Conference

April 29, 2014

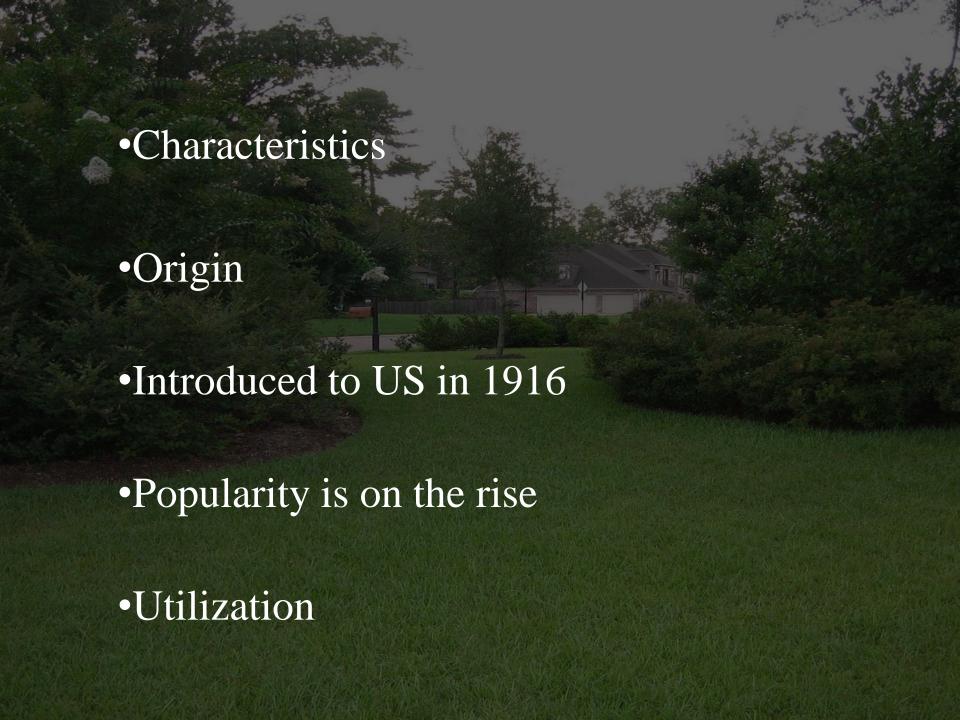




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Issues Associated With Centipedegrass

- Management Issues:
 - Fertility
 - Irrigation
 - Mowing heights
- Disease Issues:
 - Large Patch (Rhizoctonia solani)
 - Take-All Root Rot (Gaeumannomyces graminis var. graminis)
 - Dollar Spot (Sclerotinia homeocarpa)
 - Nematodes
 - Anthracnose
 - Greater that 1/3 of all diagnoses at MSU-PDDL



Centipedegrass Diseases: Time of Occurrence

SPRING

-Large patch

SUMMER

- -Large patch
- -Dollar spot
- -Take all root rot

FALL

- -Large patch
- -Take all root rot

WINTER



New and Emerging Diseases

- Anthracnose leaf spot (Colletotrichum caudatum)
- Centipedegrass anthracnose (Colletotrichum eremochloae)





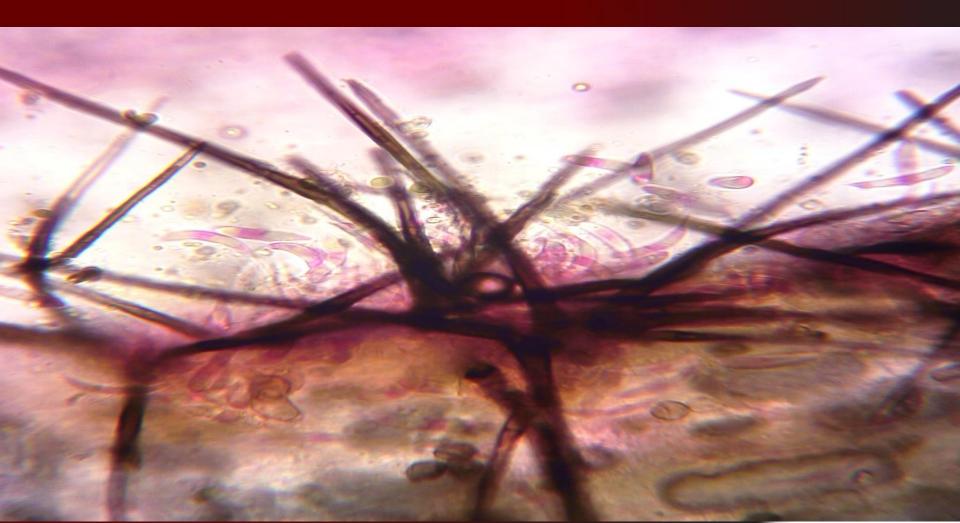
- 2006
 - First described in Japan by Fuke, et al.
- 2012
 - First observed in US













- 2007
 - First sample submitted to MSU-PDDL
 - Diagnosed as anthracnose by unknown causal organism
- 2012
 - Colletotrichum eremochloae described as the causal organism of centipedegrass anthracnose



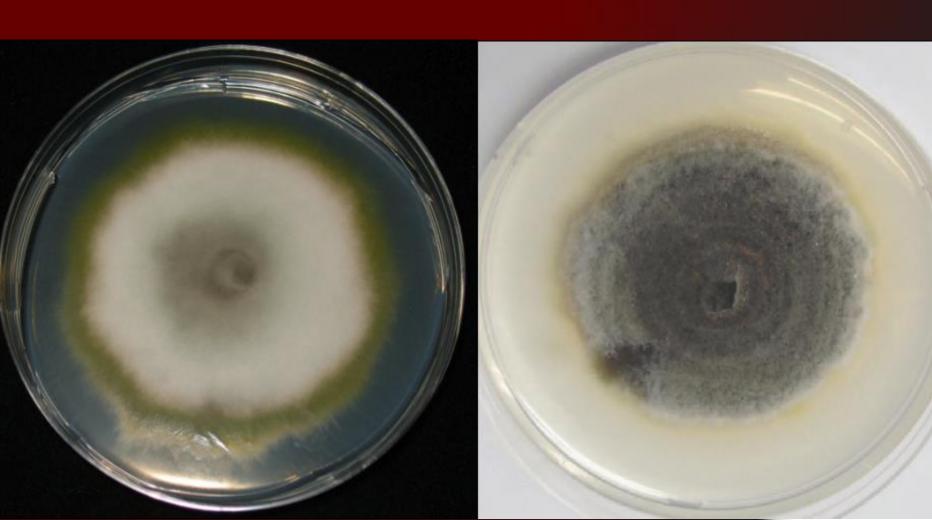




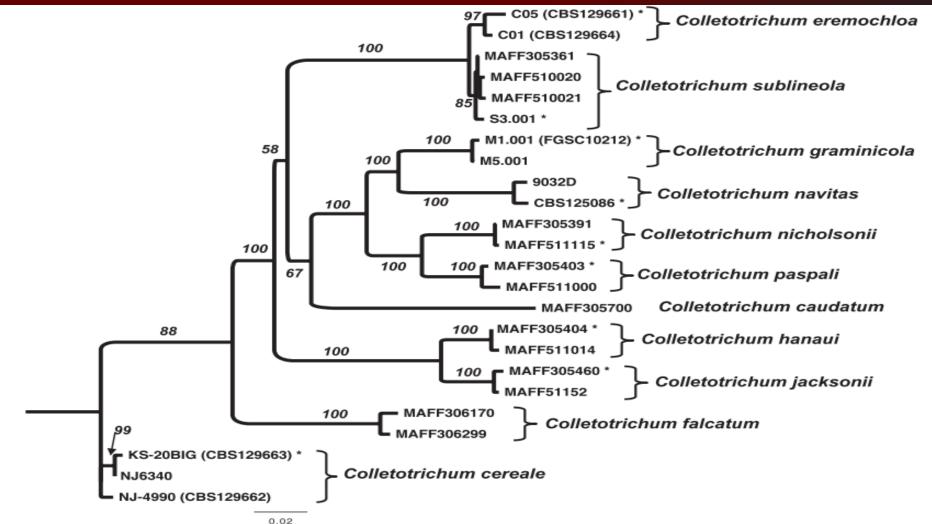


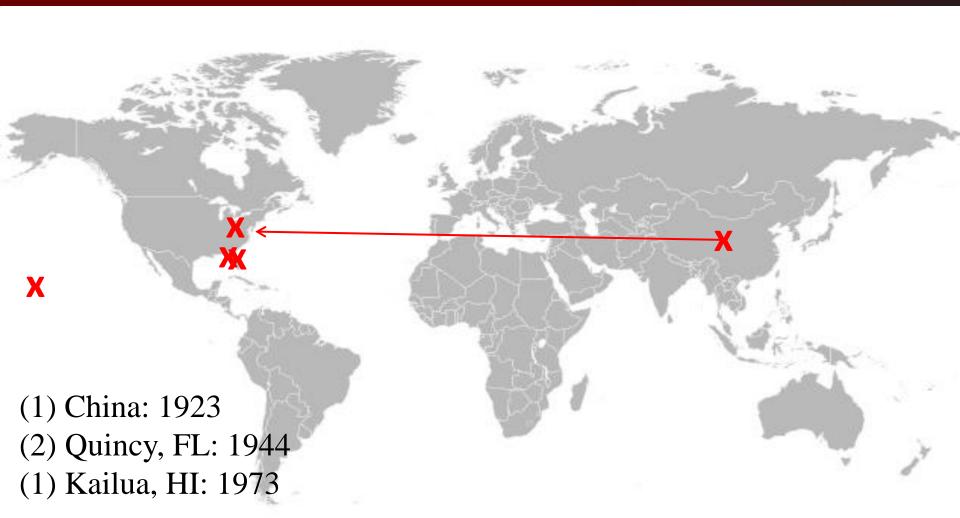












Centipedegrass Diseases: Time of Occurrence

SPRING

-Large patch

-Centipedegrass anthracnose

SUMMER

-Large patch

-Dollar spot

-Take all root rot

-Large patch

-Take all root rot

-Centipedegrass anthracnose

-Anthracnose leaf spot

FALL

WINTER



Control



What can I do to keep from getting disease?



Preventative Control

- Fertilize properly (1-2 pounds N / 1,000 sq.ft. per year)
- Irrigate to prevent drought stress (1 inch of water/week)
- Mow at proper height of cut (1.5 inches)
- Remove thatch and excessive organic matter
- Make justifiable chemical applications



I've got disease! What can I do now?



Curative Control

- Replant bare areas via seed, sod, or sprigs
- Make justifiable chemical applications



Chemical control

- Large patch
- Take all root rot
- Dollar spot
- Centipedegrass anthracnose
- Anthracnose leaf spot





Chemical control

- Large patch
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Chemical control

- Large patch
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Thank You

68th Annual Southeastern

TURFGRASS CONFERENCE



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