





























## Patch Diseases of Turf Caused by ERI fungi



**Spring Dead Spot** 



**Summer Patch** 



#### **Bentgrass Dead Spot**



**Take-all Patch** 



**Necrotic Ring Spot** 



### St. Augustinegrass Common disease problems...



D. R. Chalmers



# eumannomyces graminis diseases

• *G. graminis* can cause devastating root disease on graminaceous hosts worldwide





### Ectotrophic root-infecting fungi

#### **Runner** hyphea

brown "dots"-- infection pegs into host tissue called "lobed hyphopodia"

