

INFECTION



Penetration through wounds and lateral roots.



Healthy plant



Vessel element with mycelia, conidia, gums, and tyloses.

External symptoms: leaf yellowing, pseudostem splitting, wilting, and leaf collapse.

COLONIZATION AND SYMPTOM DEVELOPMENT



Pseudostem symptoms



Petiole symptoms

Dying plant

Internal symptoms: vascular discoloration and necrosis.

DISPERSAL



Dispersed through rain, water (irrigation, flooding, surface waters), infected planting material, infested tools and soil.

SURVIVAL

Survival in plant debris and soil as microconidia, macroconidia, and chlamydoconidia.

Courtesy of Freddy Magdama