



# **DISEASES OF FIELD AND HORTICULTURAL CROPS – I**

## **SESSION 24 BRINJAL DISEASES**

# Important Diseases

## ❖ Major Diseases

1. Phomopsis blight - *Phomopsis vexans*

## ❖ Minor Diseases

1. Damping off - *Pythium aphanidermatum*
2. Bacterial wilt - *Ralstonia solanacearum*
3. Sclerotinia blight - *Sclerotinia sclerotiorum*
4. Little leaf - Phytoplasma
5. Alternaria leaf spot - *Alternaria melongenae*
6. Cercospora leaf spot - *Cercospora melongenae*

# Phomopsis blight and Fruit Rot

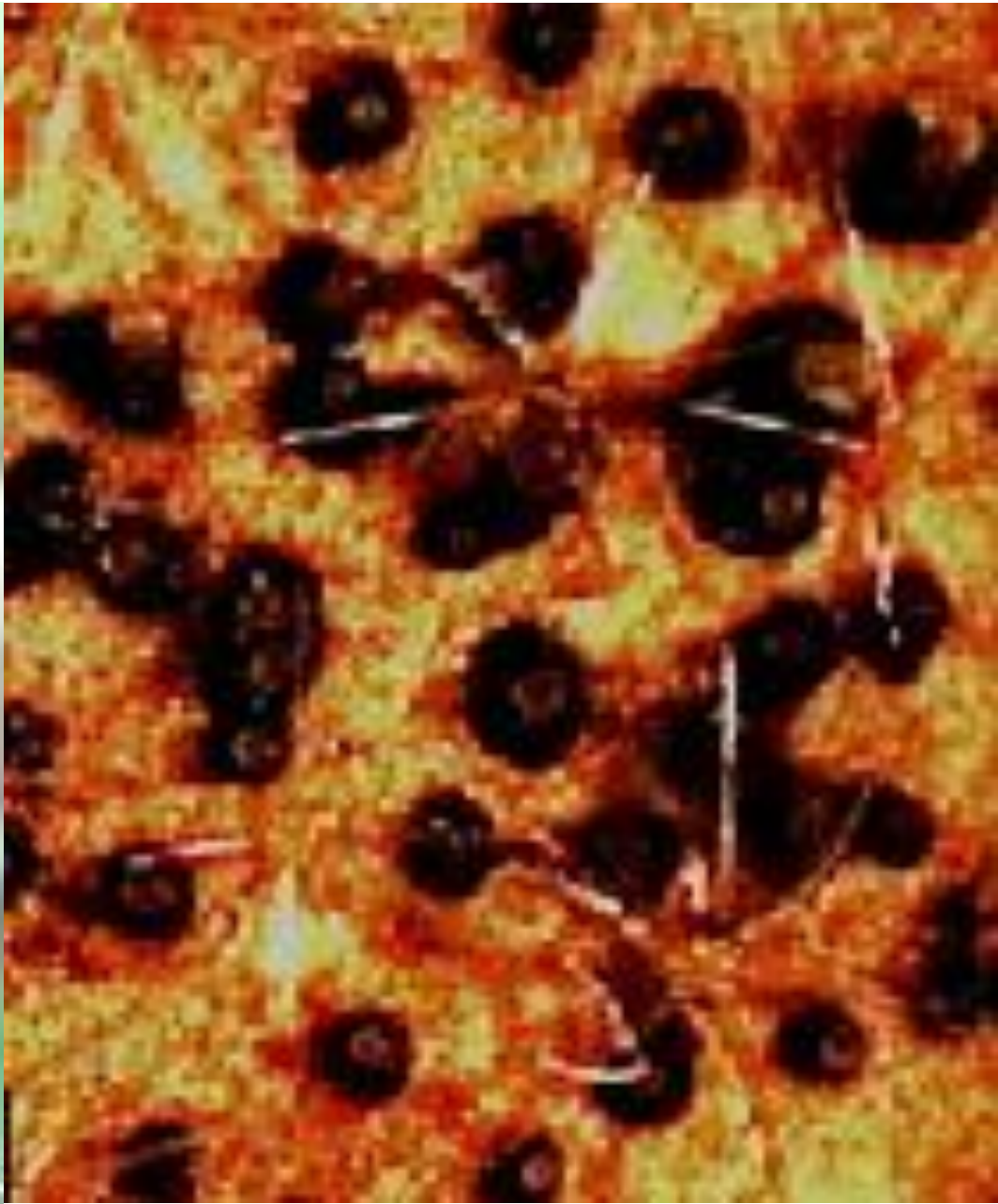
❖ *Phomopsis vexans* (T- *Diaporthe vexans*)

## ❖ Symptoms

1. On leaves, circular to irregular, clearly defined **grayish brown spots** having light centers appear.
2. **Several black pycnidia** can be seen on older spots.
3. Leaf blight and **defoliation**
4. On stem- dark brown, round to oval lesions with grayish centers where pycnidia develop.
5. On fruits, small pale sunken spots appear which on enlargement cover entire fruit surface.
6. These spots become watery leading to **soft rot**
7. A large number of **dot like pycnidia** also develop on such spots.
8. **Dry rot** and fruits appear black and mummified



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## Etiology

- ❖ Hyphae - Septate
- ❖ Produce Pycnidia
- ❖ Conidia- **alpha (oval / elongate)** and beta conidia (Filiform)



## ❖ Disease cycle

- ❖ **Primary infection** – Seed/ Crop debris
- ❖ **Secondary infection** – **Conidia** – air/ rain splashes

## ❖ Favourable Conditions

- ✓ Close planting
- ✓ T ~ 25°C with high RH
- ✓ Monocropping



## ❖ Management

1. Use healthy disease free planting materials
2. Field sanitation
3. Remove heavily infected plants
4. HWT – 50 °C for 30 minutes
5. Seed treatment – Thiram @ 3g/Kg seeds
6. Foliar spray – Propiconazole @ 0.1% ; Azoxystrobin @ 0.1%

# Damping off

❖ *Pythium aphanidermatum*, *Rhizoctonia*, *Scelrotium*, etc



# Bacterial wilt

❖ *Ralstonia solanaceum*



# Sclerotinia blight

## ❖ *Sclerotinia sclerotiorum*



# Little leaf

❖ Phytoplasma



# Alternaria leaf spot

## ❖ *Alternaria melongenae*



# Cercospora leaf spot

❖ *Cercospora melongena*

