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Center for Smart Agriculture

High value Cut flowers



Module 3: Dendrobium Orchid Cultivation
**Session 7: Identification and Management of
Disease in Dendrobium**



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Identification Bacterial Soft Rot

- Causal organism: *Erwinia chrysanthemi*
- Infected tissue very soft to touch
- When the stems are cut open a pungent odour can be detected.





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Management of Bacterial soft rot

- Disease free planting materials should be used
- Streptomycin 0.1 g per litre of water should be used for sterilizing the potting mixture



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Identification of Stem Rot

- Causal Organism is *Pythium ultimum*
- Rapid collapse and rotting of the stem, roots and leaf tissue
- Small yellow cream to brown spherical bodies with fluffy mat





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Management of Stem rot

- Sterilized potting media should be used for planting
- Metalaxyl @ 2 g/l or Copper Oxychloride @ 4 g per litre of water



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Identification of Leaf Spot

- Causal Organism is *Cercospora spp.*
- leaves turn very pale green with slightly sunken purple coloured spots
- Initially yellowish pale brown spots, turning purple black.



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Management of Leaf Spot

- Removal of diseased leaves and plants are essential
- Spraying with Carbendazim @ 0.1 % at periodical interval





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THANK YOU