



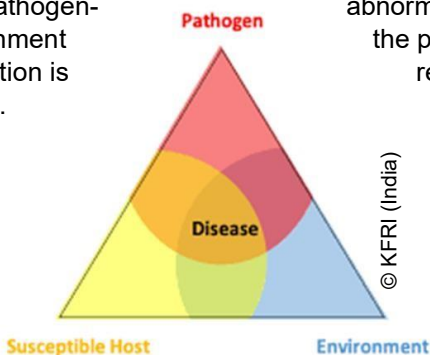
Food and Agriculture  
Organization of the  
United Nations

## Forest diseases

### TCP/MYA/3803: Strengthening the institutional capacity on forest health

The disease cycle of each host-pathogen-environment interaction is unique.

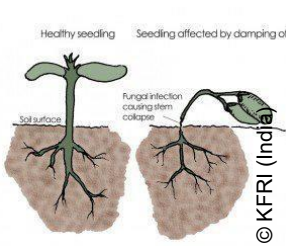
Any visible or detectable abnormalities in the plant as a result of a disease.



**Major plant pathogens:  
Fungi, bacteria, virus, nematodes,  
some algae, parasitic plants.**

**Healthy forests are vital to  
our future.**

# Nursery diseases (Teak)



Damping off



Teak vascular wilt



Symptoms of collar (root collar) rot



Leaf blight disease on teak



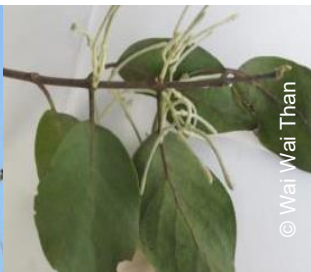
Powdery mildew (Upper surface of teak leaf) in young plantation.



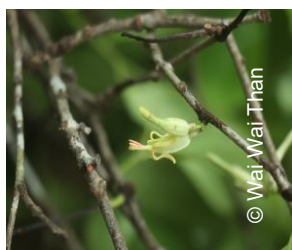
Rust fungi (Lower surface of teak leaf)

# Teak Plantation Diseases

Teak root decay



Mistletoe (semi plant parasite) on teak  
***Loranthus pulverulentus* Wall.**

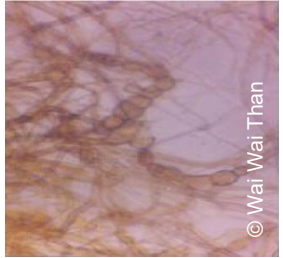


Mistletoe (semi plant parasite) on teak  
***Dendrophthoe pentandra***



Mistletoe (semi plant parasite) on teak  
***Helixanthera coccinea***

# Eucalyptus Diseases



Root rot in *Eucalyptus urograndis* & *E. urophylla*  
Causal fungus: *Cylindrocladium* sp.



Leaf blight of eucalyptus hybrid:  
*Rhizoctonia* sp. *Fusarium* sp. *Phytophthora* sp.

Dieback of  
*E. camadulensis*.



Butt canker



## Acacia diseases



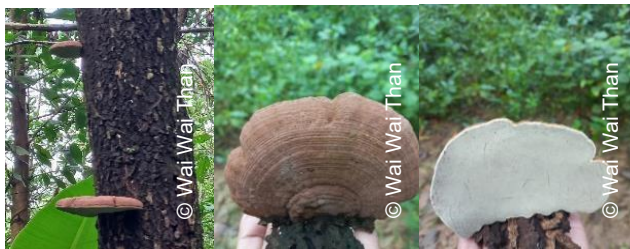
Root Rot on *A. auriculiformis* Stem Canker.



Black Mildew *Meliola* sp. on leaf, *Acacia mangium*



Wood Decay on *A. mangium*



*Ganoderma philippii*, the cause of root disease on *A. mangium*.

## Damages:

- In the nursery, diseases can easily spread from seedling to seedling.
- In the plantation, foliar disease affects photosynthesis and can result in reduced growth rates.
- Stem and root decay affect transportation of food and water up the tree, the tree gradually dies.
- Mistletoes are semi-parasites on their hosts. They can cause the host to dry up and die or affected branches can break up due to their weight.

## Contact

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