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This Is Sample Notes Of Plant Pathology This Contain Only Some Important Points.

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Plant disease symptoms and Signs



Symptoms are the plant's expression of being diseased.

- Examples of symptoms include: **blights, cankers, galls, rots, necrosis, and spots.**
- Symptoms are expressed either locally or systemically, and they frequently reflect the structural, functional, or physiological systems disturbed.
- Signs are the physical evidence of the pathogen (primary or secondary, vegetative and/or reproductive structures).
- **Some examples include:conks, mildew, mycelium, ooze, pycnidia, and rhizomorphs**.
- Diagnosis of plant disease is based on looking for symptoms and signs.

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A dictionary of Plant disease Symptoms and Signs

- **Blight**: sudden death of twigs, foliage, and/or flowers.
- **Blotch**: large and irregular-shaped spots or blots on leaves, shoots, and stems.
- **Canker**: dead places on bark and cortex of twigs or stems; often discoloured and raised or sunken.
- **Chlorosis**: yellowing of normally green tissue due to reduced chlorophyll content, such tissue is chlorotic
- **Conks:** fungal fruiting structures formed on rotting woody plants (shelf or bracket fungi).
- **Damping-off:** destruction of seeds in the soil, or seedlings near the soil line, resulting in reduced stand, or the seedling falling over on the ground

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General Symptoms of Diseases



Symptoms	Character
Downy mildew	The superficial growth of the pathogen is a cottonyor downy layer of leaves surface.
Powdery mildew	Dusty or powdery appearance (growth) of funguson upper surface of plants.
Rust	Rusty appearance and appear as relatively smallpustules of spores. ***Autocious rust:***Complete its life cycle *in same*host e.g. Linseed rust. ***Heteroecious rust:***The rust which requiresalternate host or completes their life cycle morethan one host e.g. Wheat rusts.
Anthracnose	Ulcer -like lesions on stem and pods.

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Important points Of Plant Pathology



- Father of plant pathology: Anton de bery
- Bordeaux mixture was developed by: P.M.A. Millardet (1885)
- Wart disease of potato is caused by: *Synchytrium endobioticum*
- Bunchy top of banana caused by: Virus
- Late blight of potato is caused by: *Phytophthora infestans*
- Father of microbiology: Louis Pasteur
- Ooze test is done for detecting: Bacteria
- White rust of cruciferous is caused by: *Albugo candida*

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Classification of Plant Disease



Mycoplasma disease/Phytoplasmadisease

Name of disease	Host plant	Vector
Yellow dwarf disease	Rice	GLH: *Nephotettix virescens*
Phyllody	Sesame	Leafhopper: *Orosius albicinctus*
Little leaf	Brinjal	Leaf hopper: *Cestius phycitis*

Viral diseases

Host plant	Viral disease	Vector
Wheat	Streak mosaic	Eriophyid mite: *Aceria tulipae*
Maize	Mosaic	Sorghum bug:*Peregrinus maidis*
Rice	Tungro disease	GLH: *Nephotettix virescens*

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