

AB0807-PLANT PATHOLOGY

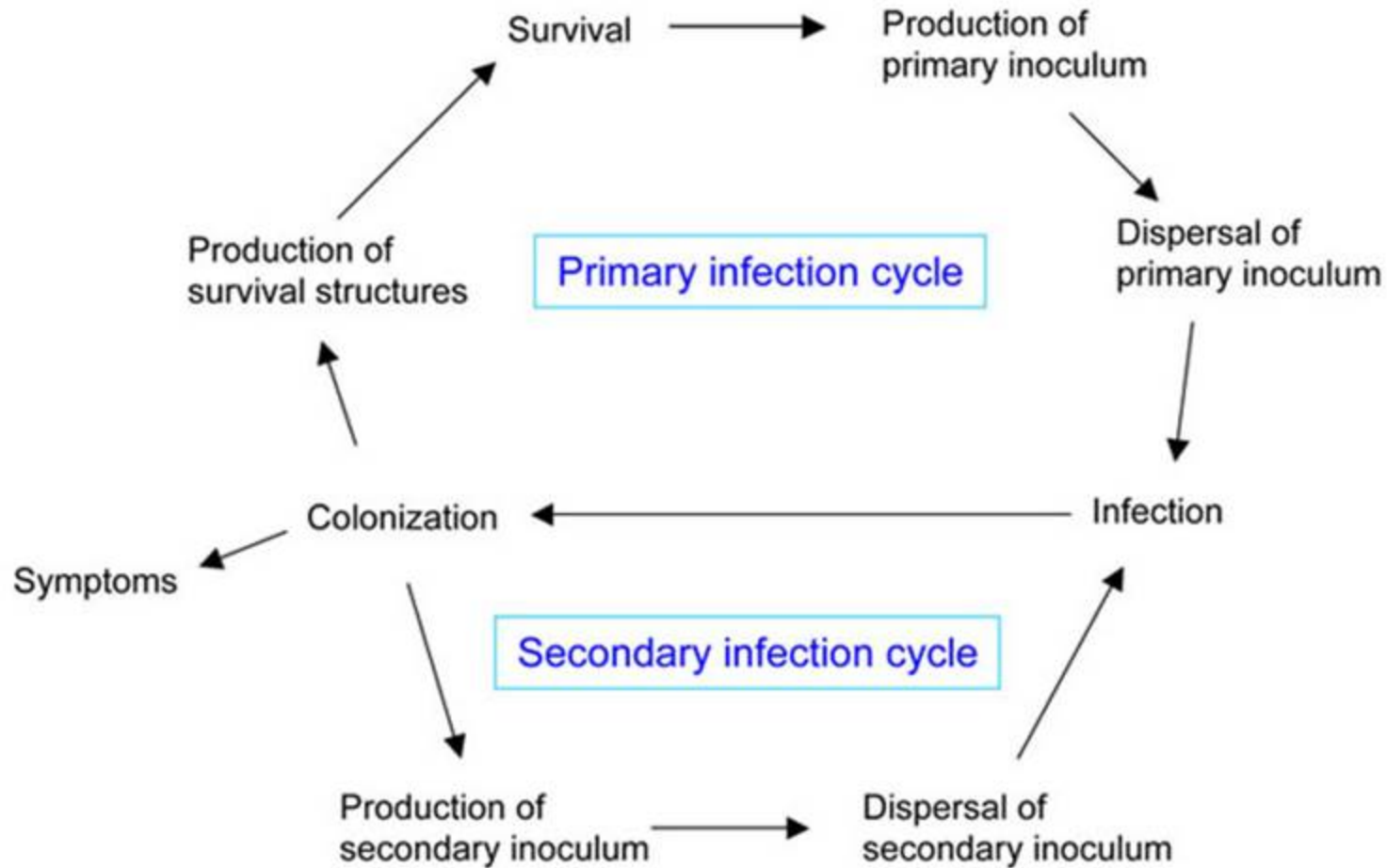
LECTURE 4

- Plant Disease Development and Disease Cycle
- Parasitism and Pathogenicity
- Stages in the Development of Disease in Plants

DISEASE CYCLE

- Pathogenesis/ Disease Cycle – a series of events that occur in succession during a pathogenic relationship of a pathogen and host that leads to disease
- The study of disease cycle generate information about:
 - Source of perpetuation of pathogen
 - Mode of spread
 - Help in formulation of control measures
- A pathogen's life cycle may follow events similar to the disease cycle.

DISEASE CYCLE



COMPARISON OF DISEASE CYCLES

	Fungi	Bacteria	Viruses	Nematodes
Survival	Crop residue	Crop residue	-	Crop residue
	Soil	Soil	-	Soil
	Alt. hosts	Alt. hosts	Alt. hosts	-
	-	Insect vectors	Insect vectors	-
Dispersal	Wind	Wind	-	Tillage
	Rain	Rain	-	Equipment
	Insects	Insects	Insects	Water run-off
Infection	Directly	-	-	Directly
	Wounds	Wounds	-	-
	Insect feeding	Insect feeding	Insect feeding	-