

CLASSIFICATION OF PLANT DEFENSE

1. Constitutive (Passive, Pre-formed, Pre-existing)

Prevents pathogen entry

- a) Physical barriers (Structural)
- b) Phytoanticipins (Biochemical)

2. Inducible (Active, Post-infection)

Destroys pathogen inside the plant

- a) Structural
- b) Biochemical
- c) Phytoalexins
- d) Hypersensitive Response (HR)
- e) Systemic Acquired Response (SAR)

NON-HOST RESISTANCE

- When a plant resist the attack of pathogenic organism to which this plant is otherwise not a host, this is known and termed as **non host resistance**.
- Non host resistance is the most common form of resistance in nature.
 - e.g. potato late blight pathogen *Phytophthora infestans* do not infect apple or wheat plant and similarly apple pathogen like *Venturia inaequalis* do not attack potato.
 - similarly, the fungus that causes powdery mildew on wheat (*Blumeria (Erysiphe) graminis* f. sp. *tritici*) does not infect barley and vice versa, the fungus that causes powdery mildew on barley (*B. graminis* f. sp. *hordei*) does not infect wheat, and so on.

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