

# HYPERSENSITIVE RESPONSE (HR)

- The hypersensitive response is the culmination of the plant defense responses initiated by:
  - the recognition by the plant of specific pathogen-produced **signal molecules**, known as **ELICITORS**. Recognition of the ELICITORS by the host plant activates a cascade of biochemical reactions in the attacked and surrounding plant cells and leads to new or altered cell functions and to new or greatly activated defense-related compounds.





# HYPERSENSITIVE RESPONSE (HR)

- The hypersensitive response (HR) is a localized death of host cells at the site of infection. It is the result of a specific recognition of a pathogen attack by the host.
- HR is considered to be a type of defense mechanism termed **programmed cell death (PCD)**.
- HR acts by isolation of the pathogen, stop the flow of nutrients, thus STARVATION of the pathogen.

