

ABSCISSIC ACID

Phytohormones promoting shedding or abscission of plant parts (leaves, flowers & fruits.)

- ⇒ Discovered by Sney and Addicott (1965) in cotton fruit (ball)
- ⇒ Isolated chemical was called Abscissin.
- ⇒ Cannforth (1967) was isolated a chemical from dominant fruits of cotton.
- ⇒ Chemical was named Dormin II.
- ⇒ Both Abscisin A & Dormin II were given a common name abscissic acid.

Physiological role in Abscissic acid →

- (i) Bud or Seed dormancy → Abscissic acid promotes dormancy in which active seed or bud becomes dormant.
- (ii) Inhibition of growth → It is strong inhibitor of growth in presence of abscissic acid plants stop growing, show stunted growth & become smaller in size.
- (iii) Stomatal movement → Abscissic acid is a stop anti-transpiration it closes stomata thereby checking transpiration.