ETHYLENE

Ethylene promotes fruit ripening.
⇒ Ethylene occurs in atmosphere as gas.
⇒ Also occurs in smoke
⇒ Discovered by Deny (1924).

Physiological growth in Ethylene →

(i) Inhibition of growth → Ethylene like abscissic acid also inhibit the growth of plant & buds.

(ii) Fruit ripening →

(iii) Separation of bud growth → In presence of Ethylene buds fails to growth.

(iv) Root initiation → It promote formation of lateral root in stem like auxins.

(v) Senescence → ⇒ Gradually loosing the str. & function of an organ & body.
⇒ Cell vacuoles work as lysosome
⇒ Lysosome secreate the digestive enzymes.
⇒ Digest the cellular contents & cell organelles.
⇒ Proteins breaks into amino acids with the help of proteases.
⇒ Fats changes to glycolic acids by lipases.
⇒ DNA breaks by the activity of DNA ase.
⇒ RNA " " " " " RNA ase.
⇒ Ethylene promote the cell Senescence.

(vi) Flowering → It also promotes flower formation in varies plants like apple, cucumber, pineapple & other hence, due to increase the yeild of fruits trees.