

CIRUS CANKER DISEASE

Causal organism - Xanthomonas citri

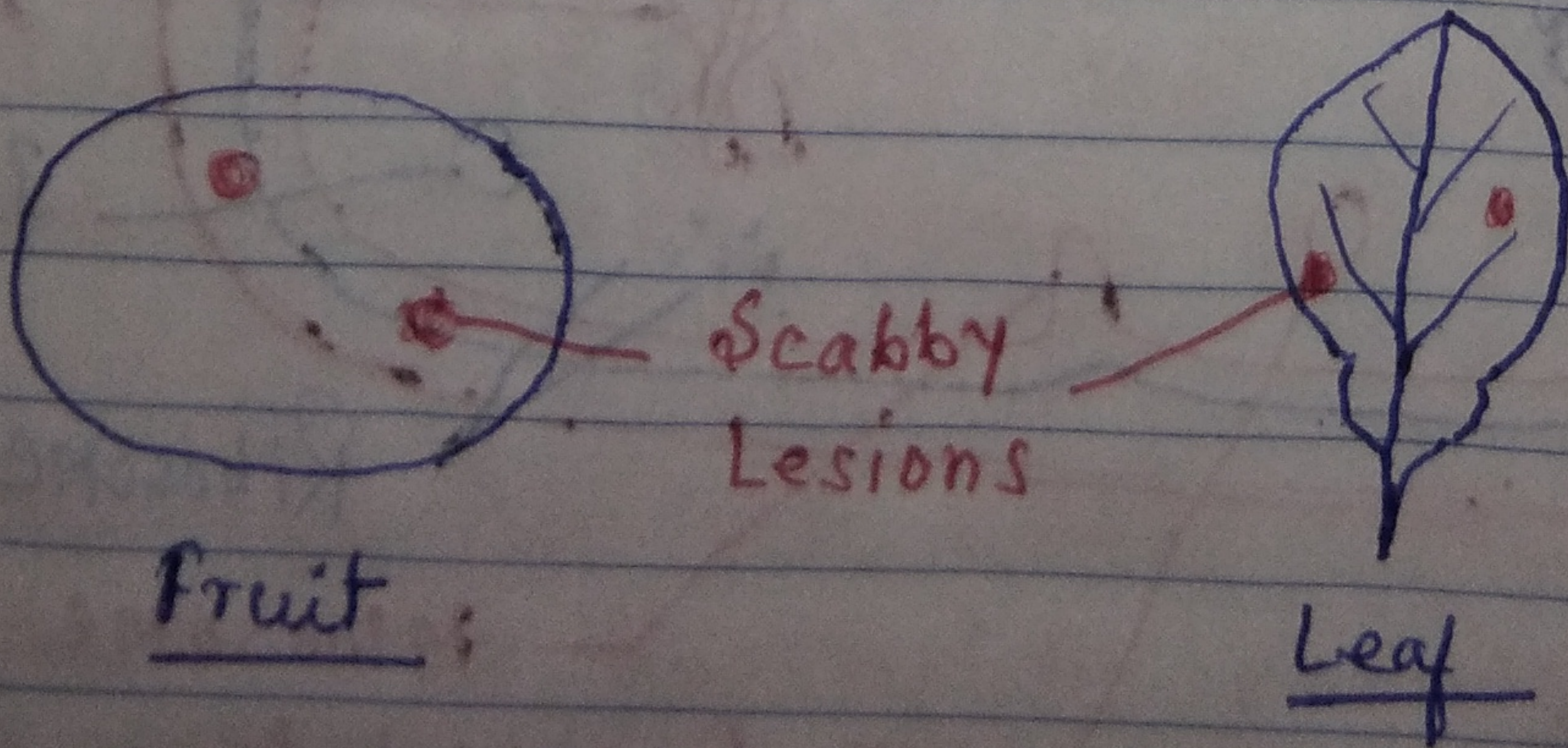
It is Monotrichous, Gram -ve, Aerobic Bacteria, surrounded by mucilagenous capsule.

It causes citrus Canker in a number of citrus sp on stem, leaves, & fruits.

Symptoms -

- (1) Appears on Leaves, Twig, older branches & fruits.
- (2) Leaf lesions first appear as small, round, watery translucent spots. later become yellowish brown.
- (3) spot finally ruptures in the centre giving a rough corky & crater like appearance.

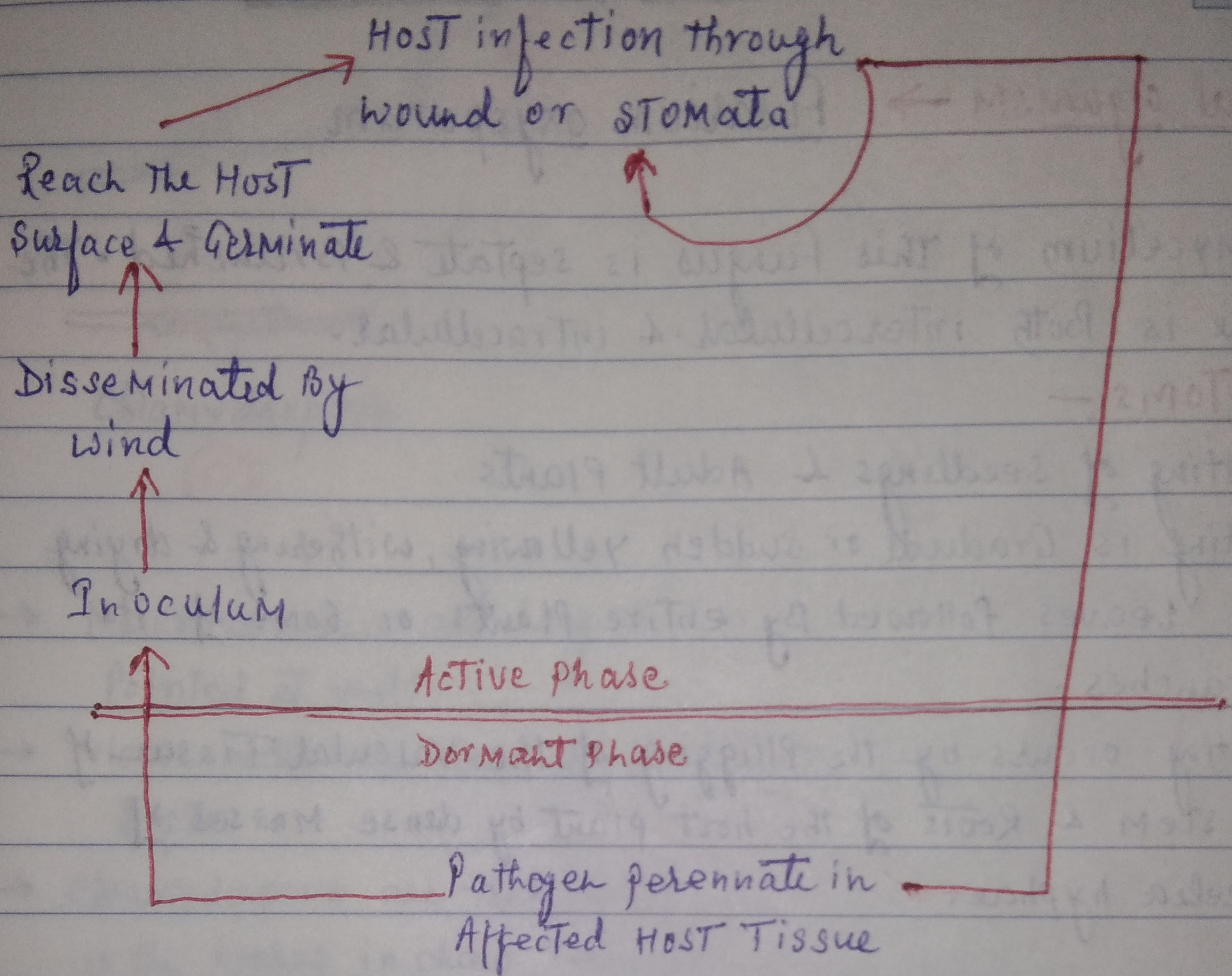
- (4) Lesions containing depression with raised margins are called canker (Necrotic lesions)
- (5) Canker on twig causes them to break.
- (6) The injury to fruit is skin deep.



Disease cycle - It is NOT soil born. Infection take place through the stomata & wound. & multiply rapidly in the inter-cellular space. Rain & Temp (20-30°C) is most effective.

Disease cycle-

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Control →

- (1) Eradication of Diseased Tree.
- (2) Pruning of affected parts of the plant.
- (3) The fallen infected leaves & twigs should be collected & burnt.
- (4) Spray of Bordeaux mixture & lime sulphur at regular intervals during the first three months after the beginning of fruit formation before the rain & repeated during rainy seasons.
- (5) Antibiotics spray (streptomycin sulphate & Phonomycin) is useful & effective.
- (6) Nurseries should be raised away from the region of heavy & protracted rainfall.

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