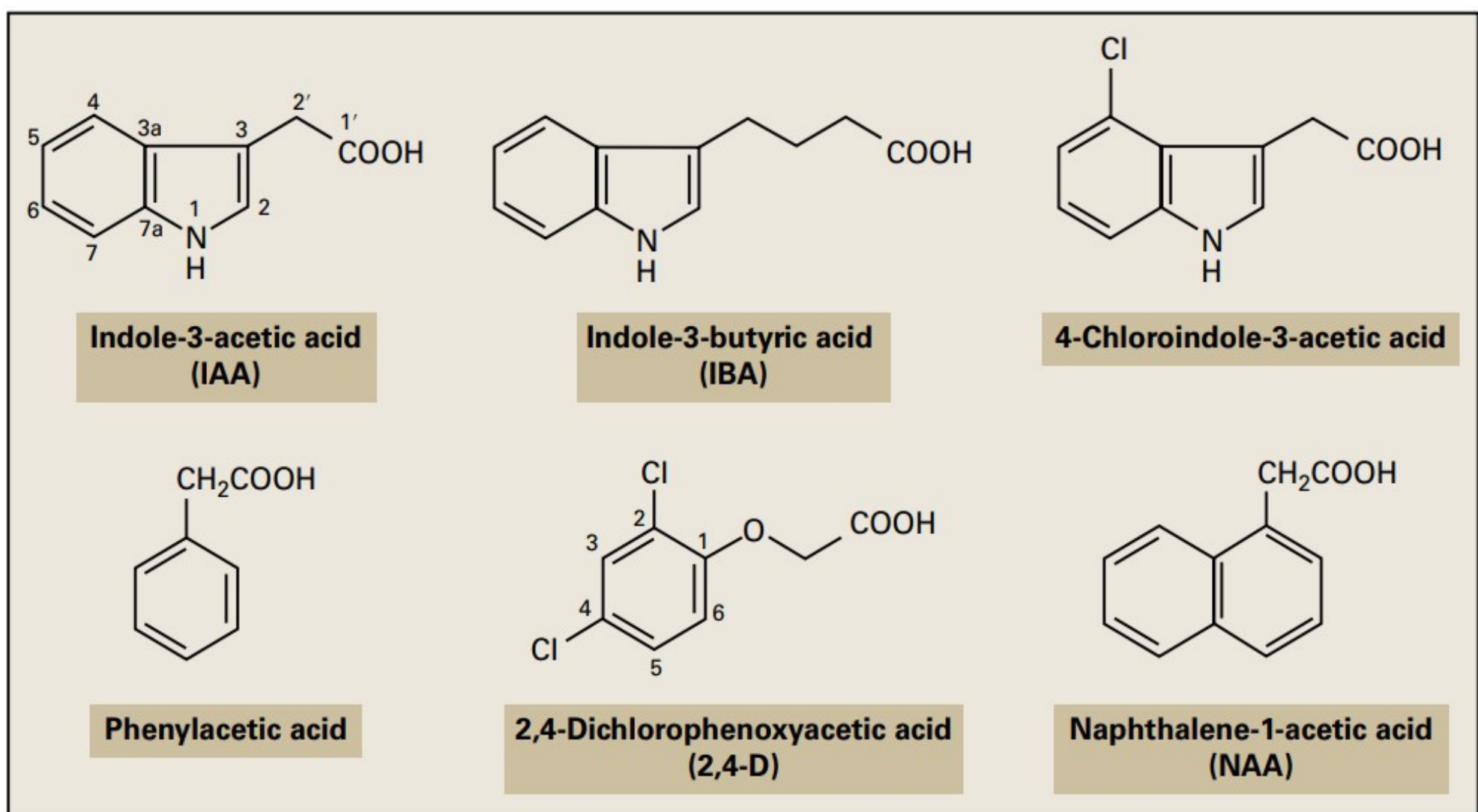


Mind Map on Auxin

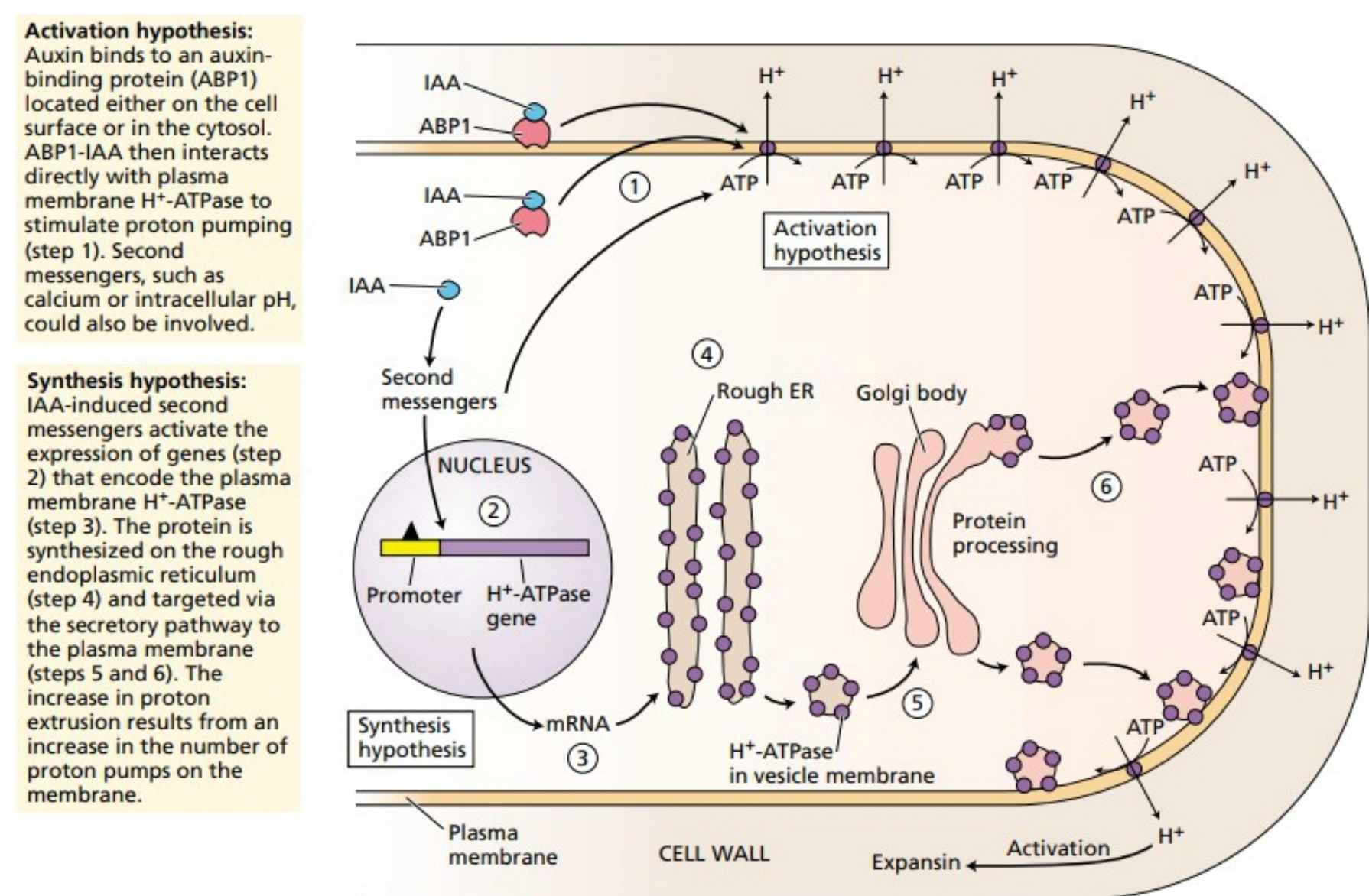


Structure and Physiological Functions

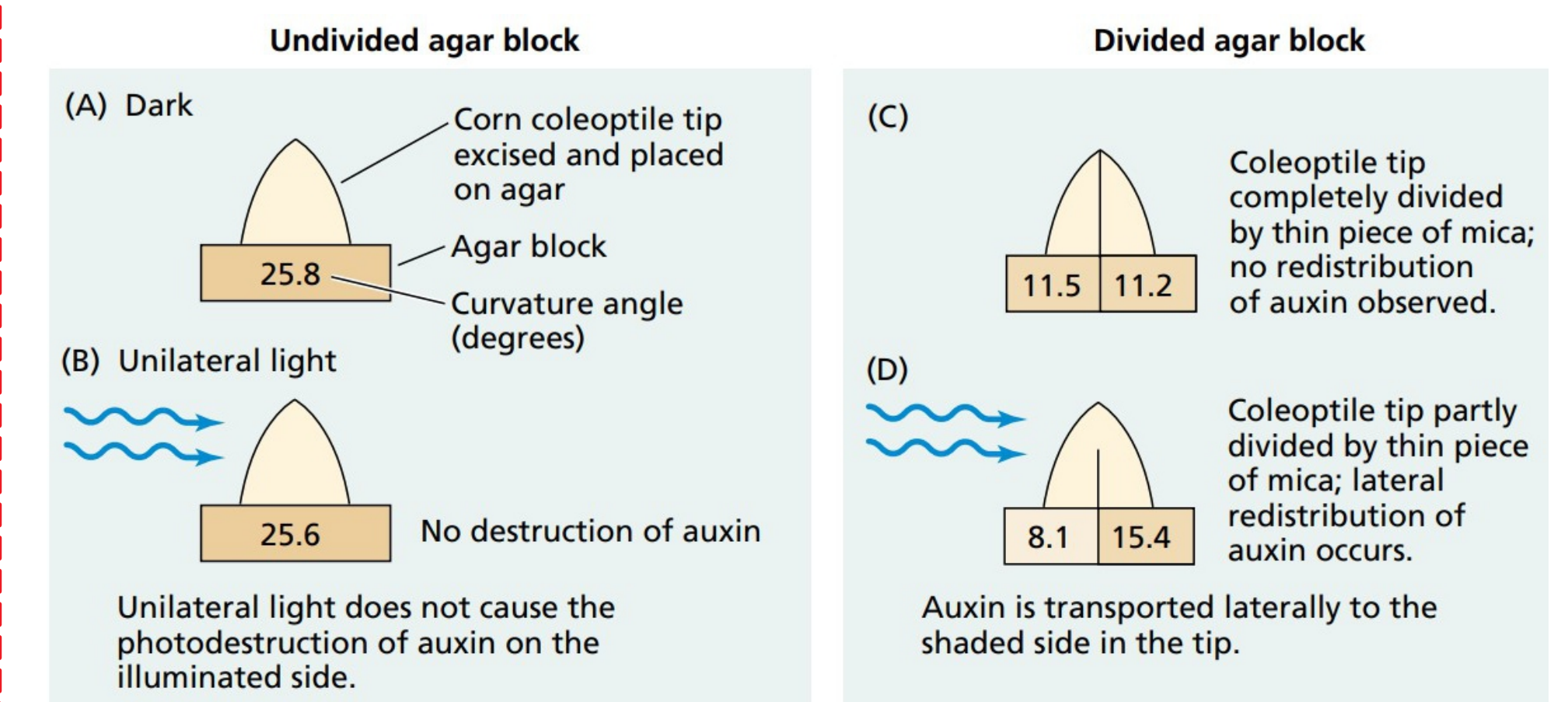
Structures of naturally occurring (IAA, IBA, 4-Cl-IAA and PAA) and synthetic (2, 4-D and NAA) auxins.



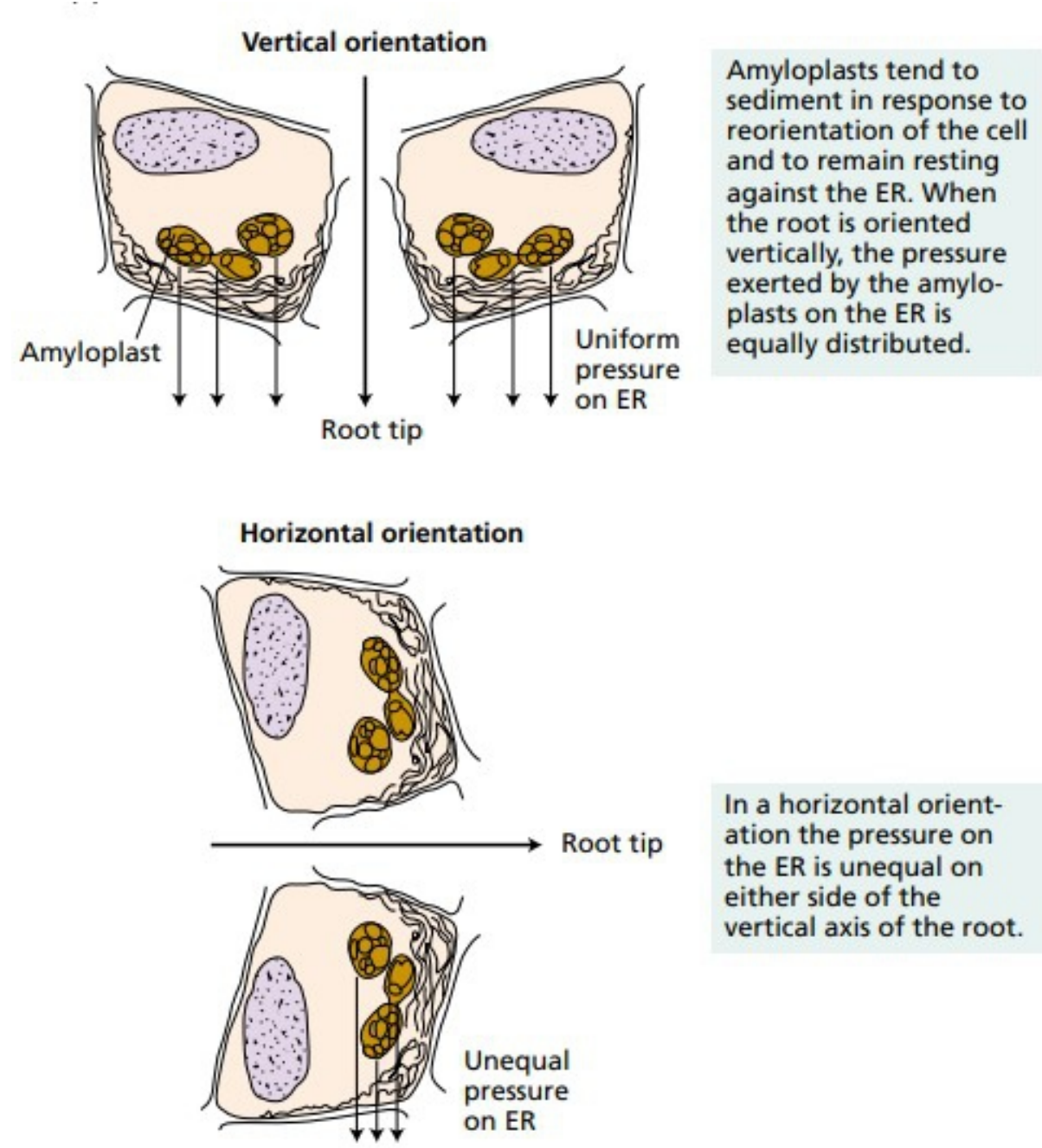
Auxin-Induced proton extrusion acidifies the cell wall and increases cell extension.



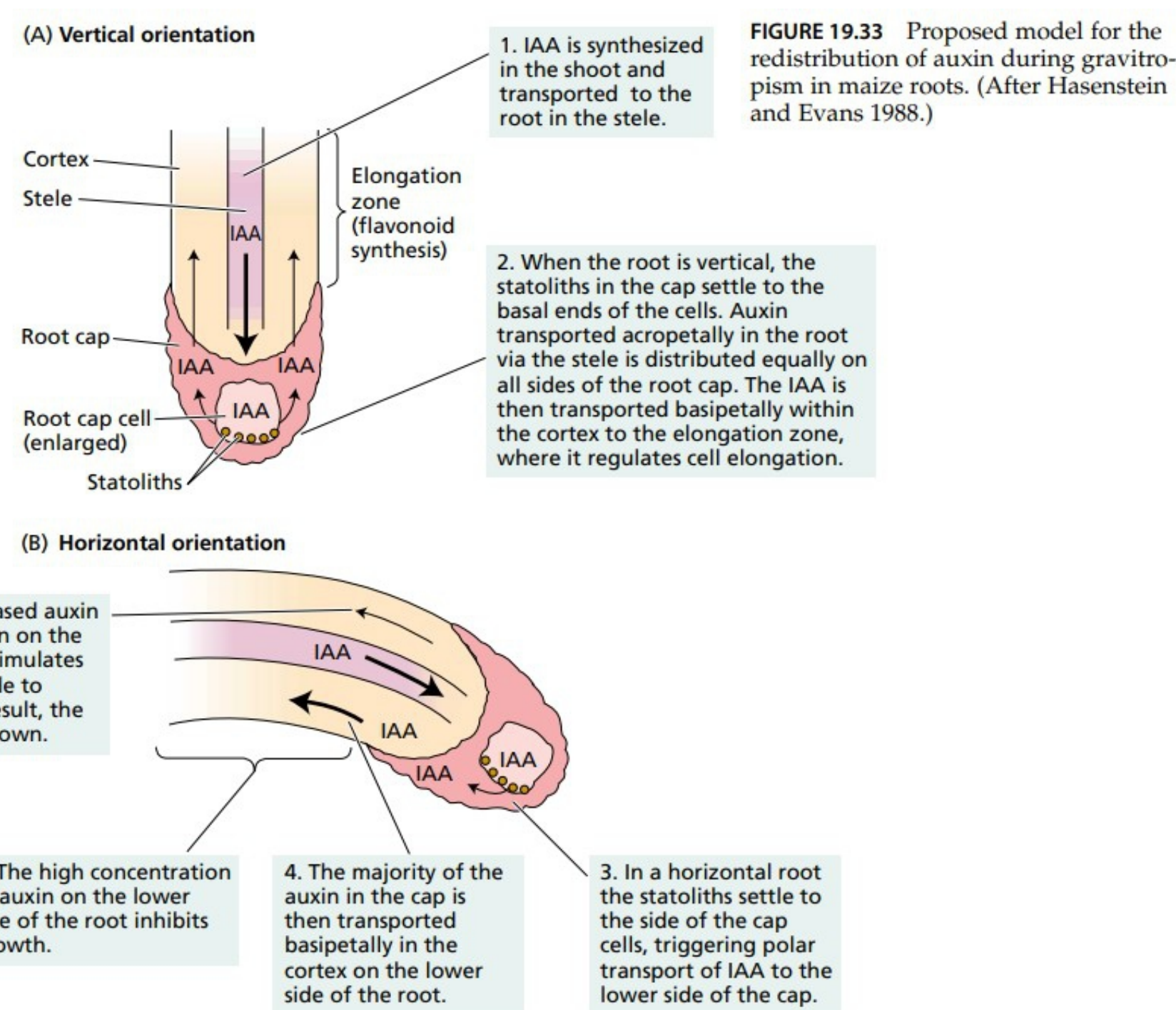
Cholodny-Went model or Coleoptile curvature assay phototropism due to lateral redistribution of auxin.



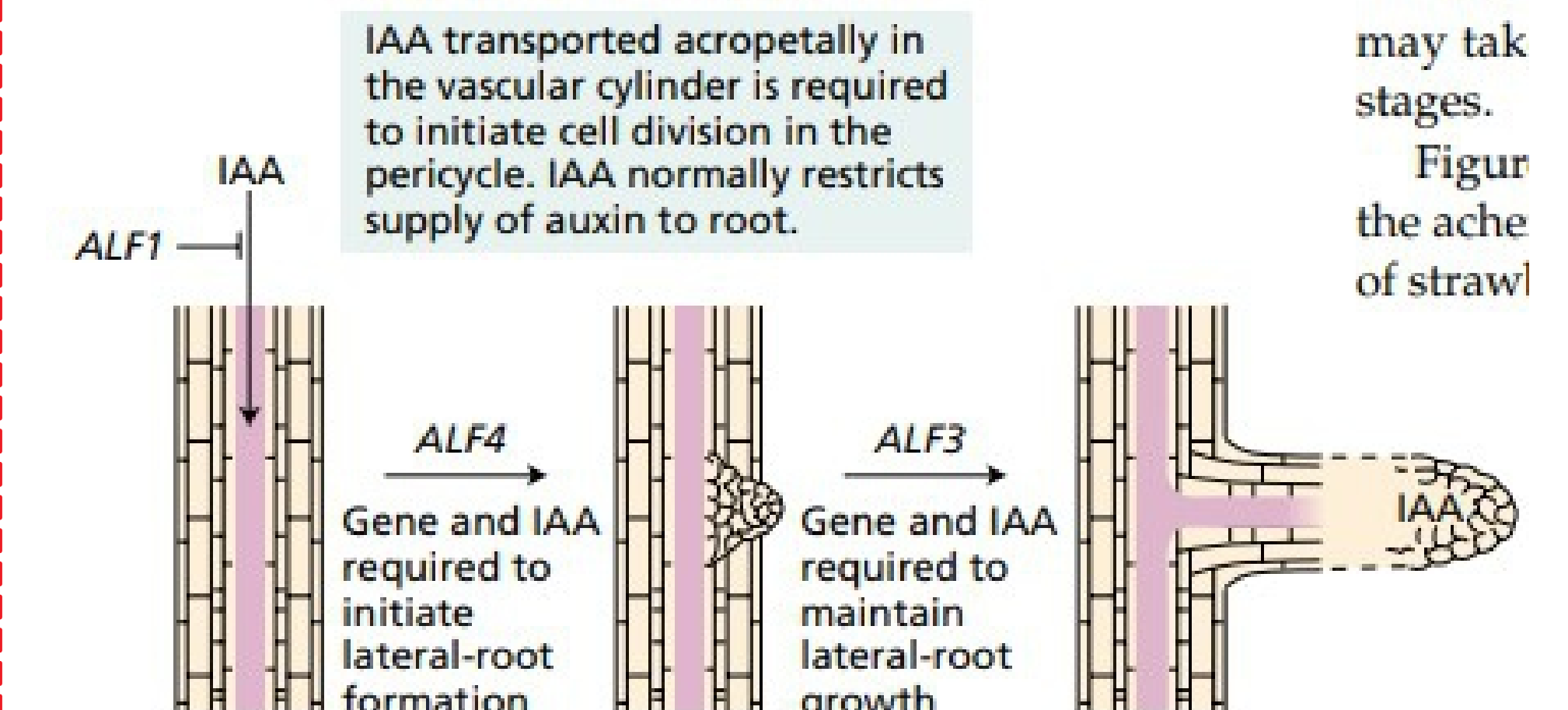
Gravitropism by statocytes of *Arabidopsis thaliana*.



Gravitropism by statocytes of *Arabidopsis thaliana*.

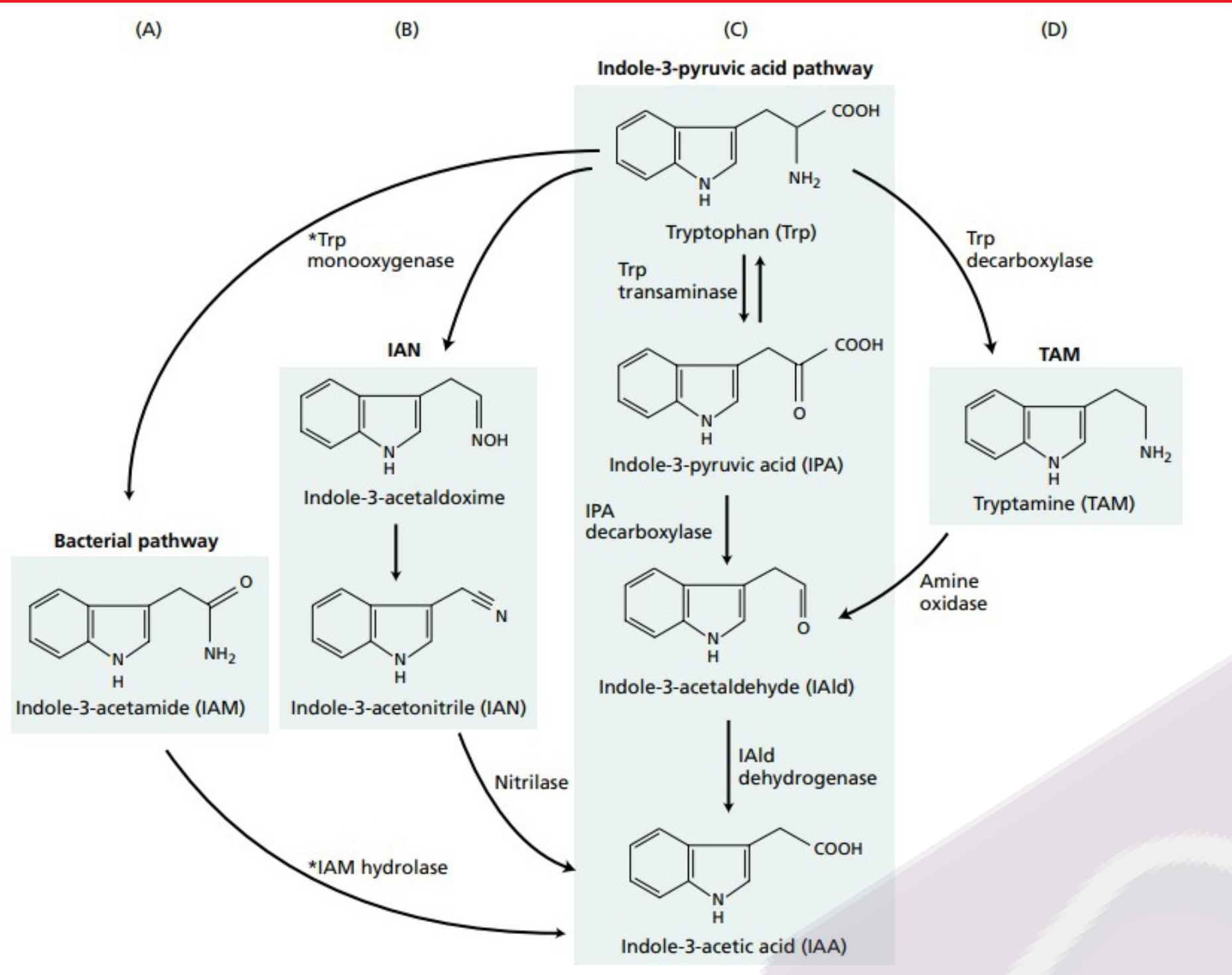


Auxin promotes the formation of lateral and adventitious roots.

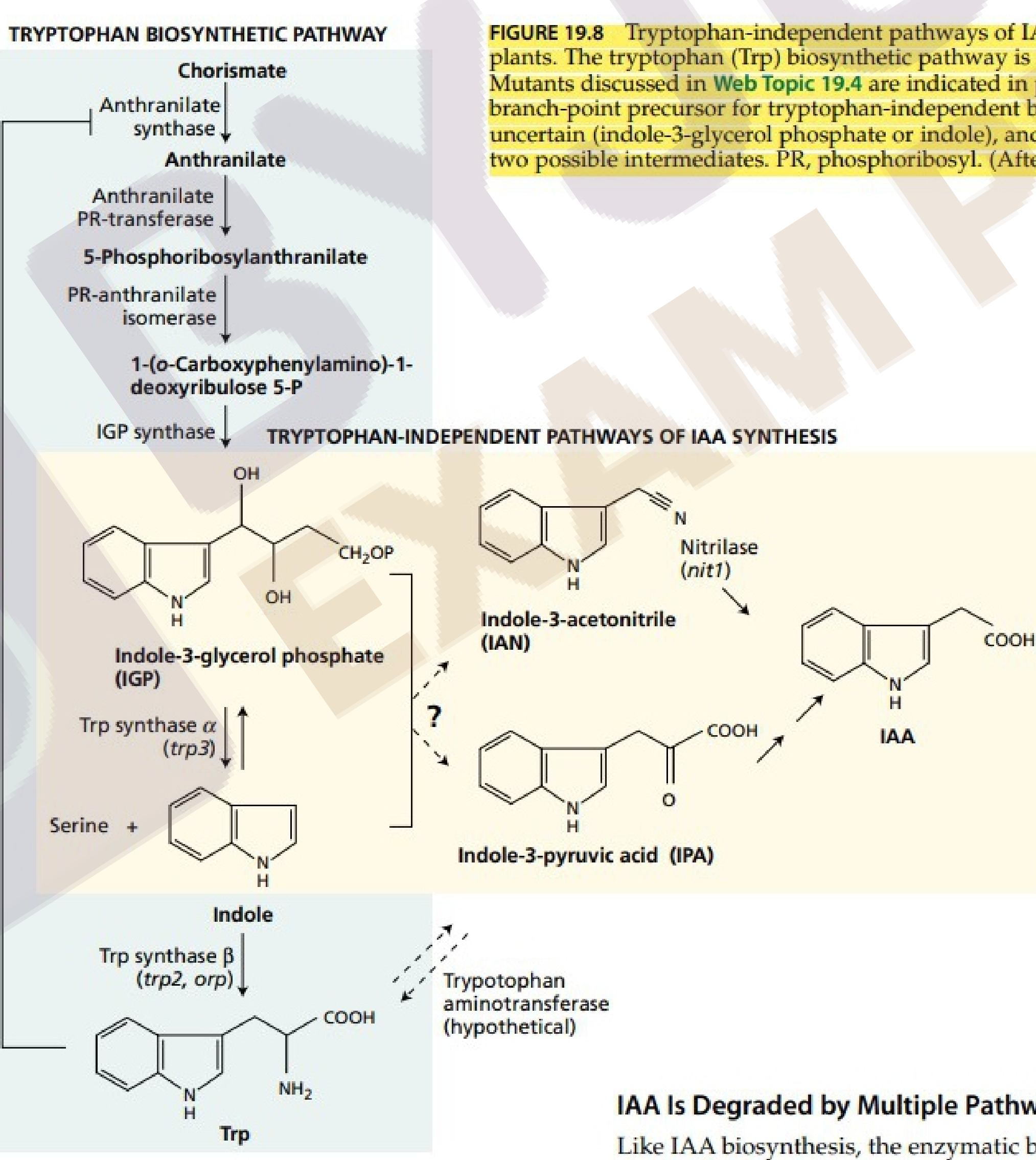


Biosynthesis and Metabolism

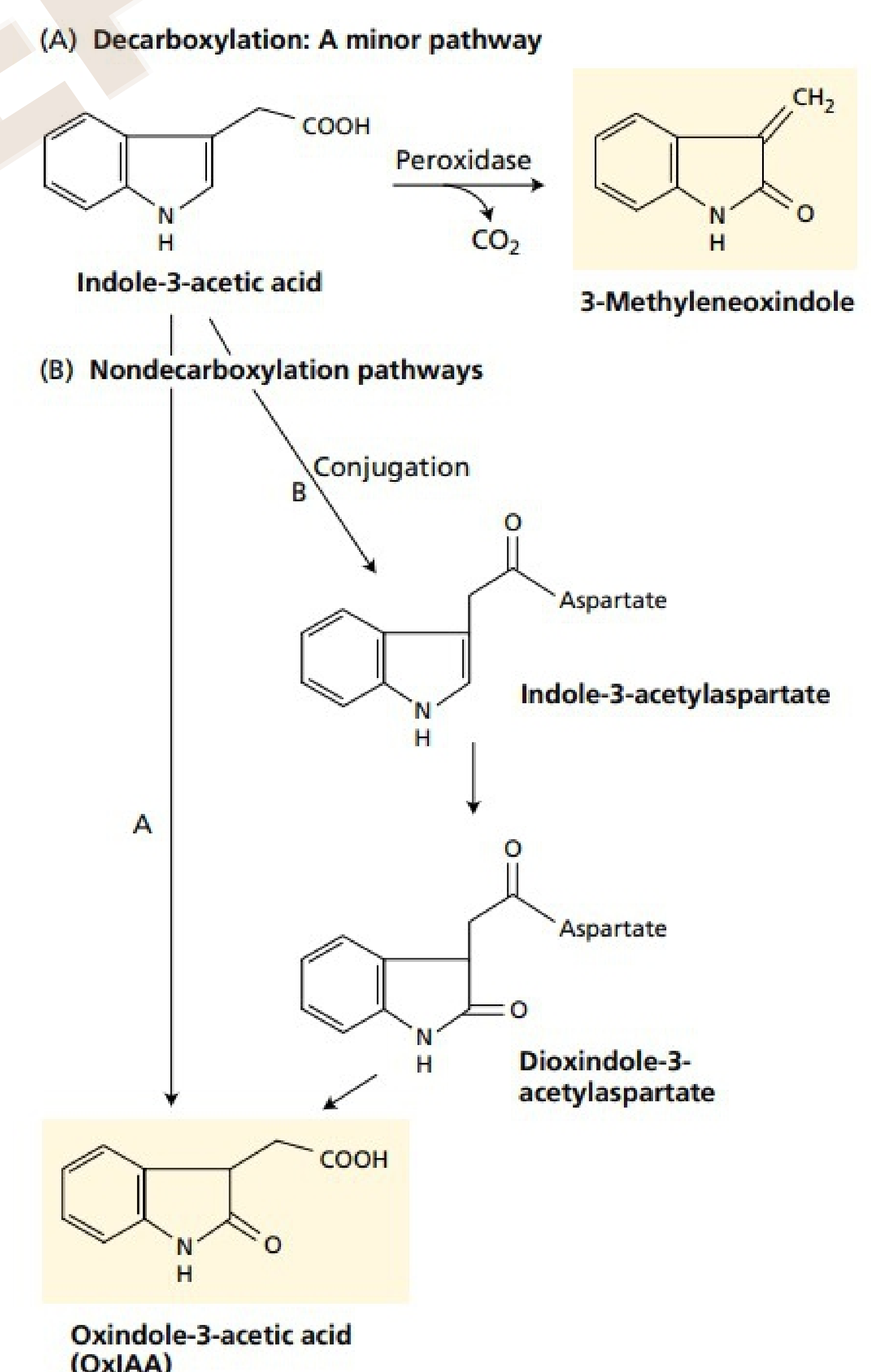
Tryptophan-dependent biosynthesis in plants and bacteria. The enzymes present only in bacteria are marked with an asterisk.



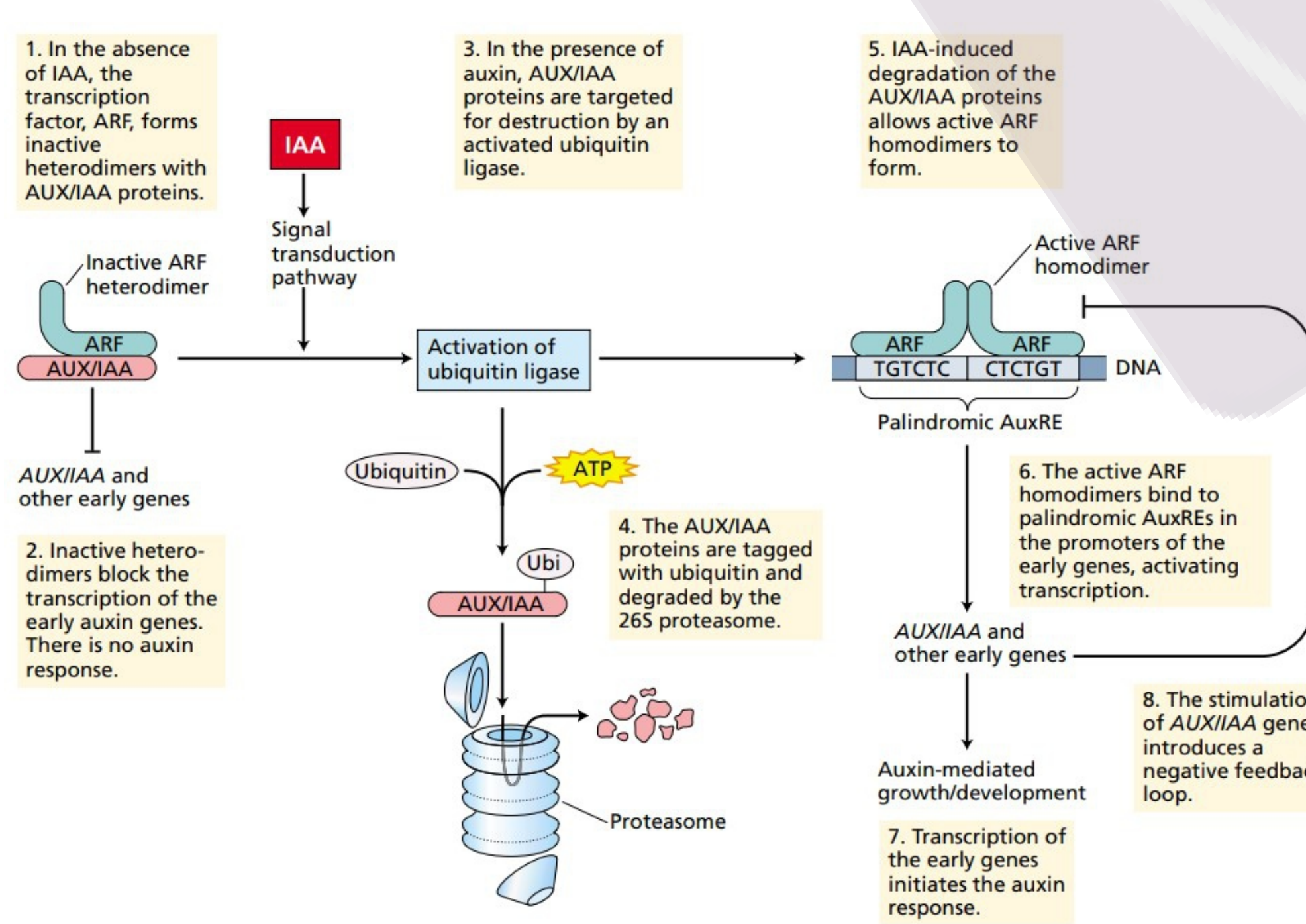
Tryptophan-independent pathways of IAA biosynthesis in plants.



Controlled biodegradation of IAA.



A model for auxin regulation of the early response genes.



Transport and its Inhibitors

Chemiosmotic model for polar auxin transport.

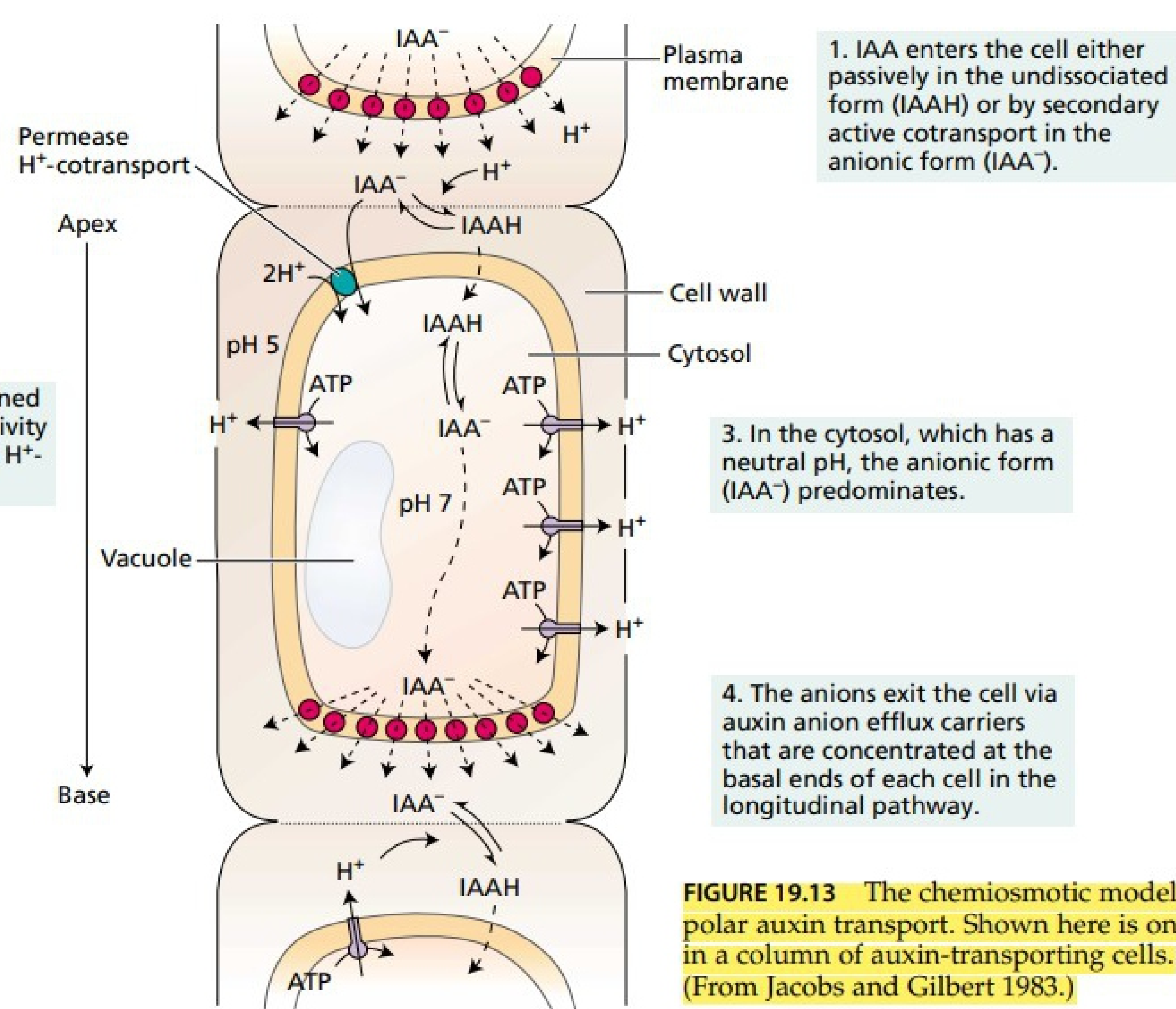
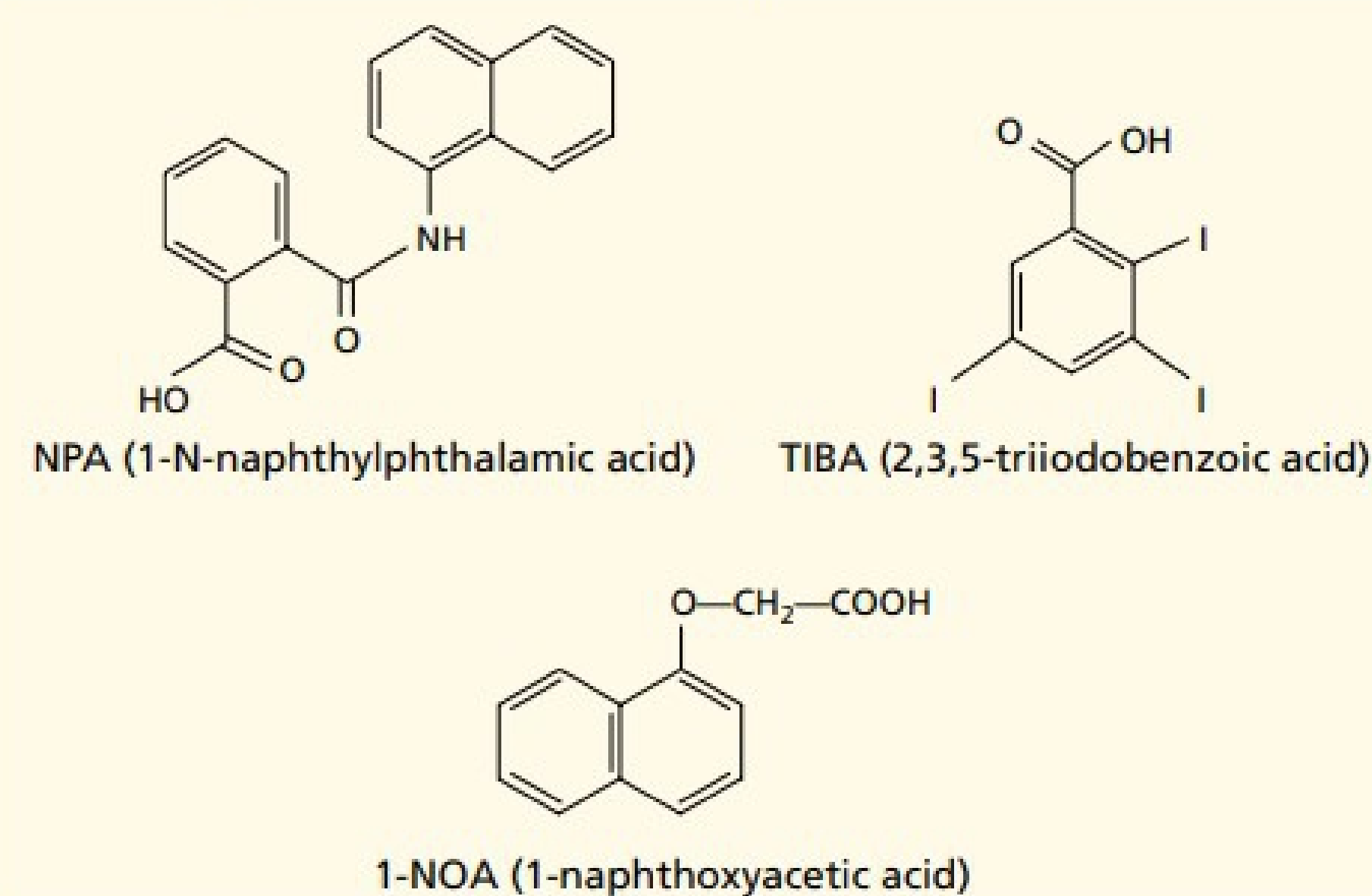


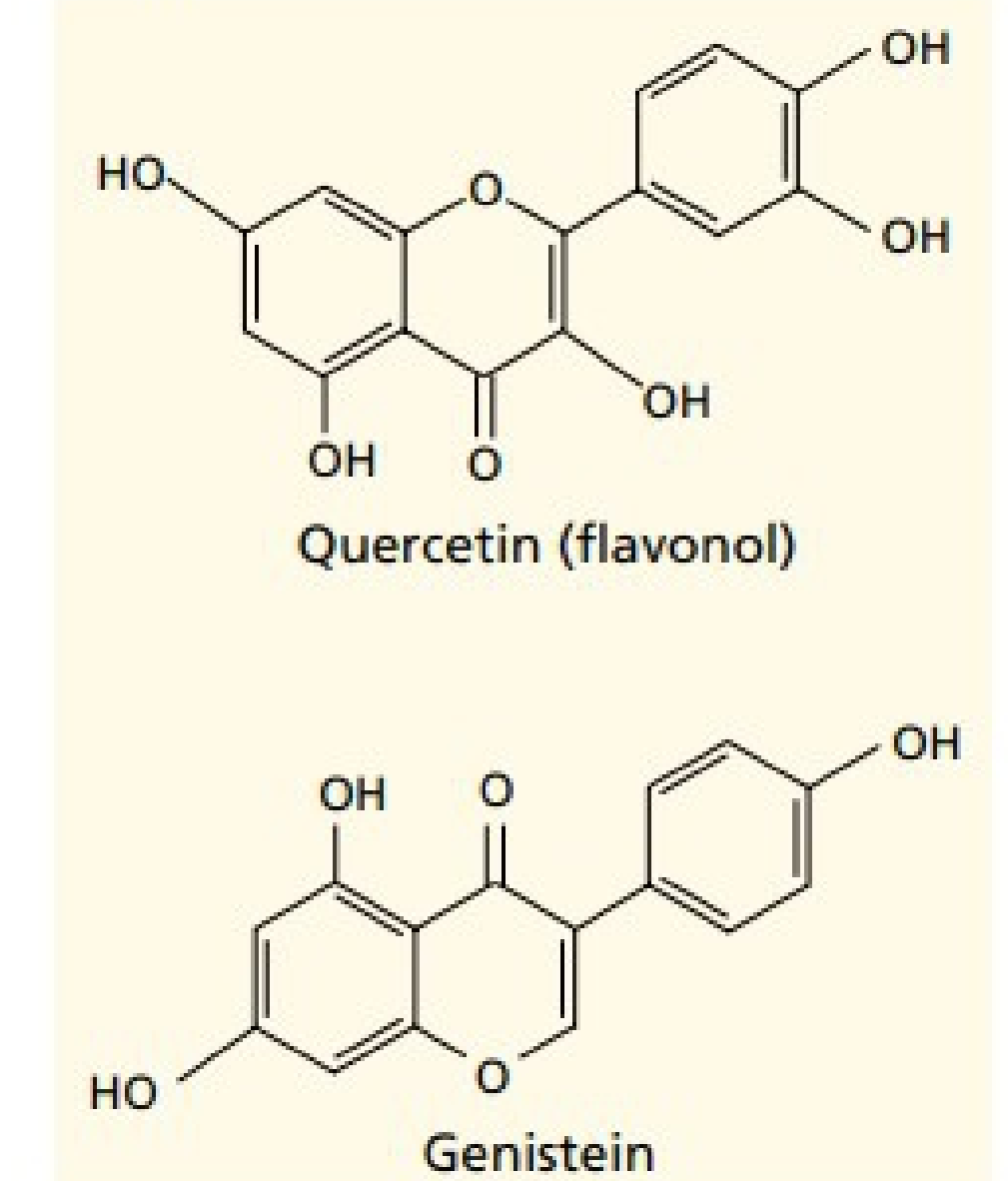
FIGURE 19.13 The chemiosmotic model for polar auxin transport. Shown here is one cell in a column of auxin-transporting cells. (From Jacobs and Gilbert 1983.)

Auxin transport inhibitors.

Auxin transport inhibitors not found in plants



Naturally occurring auxin transport inhibitors



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