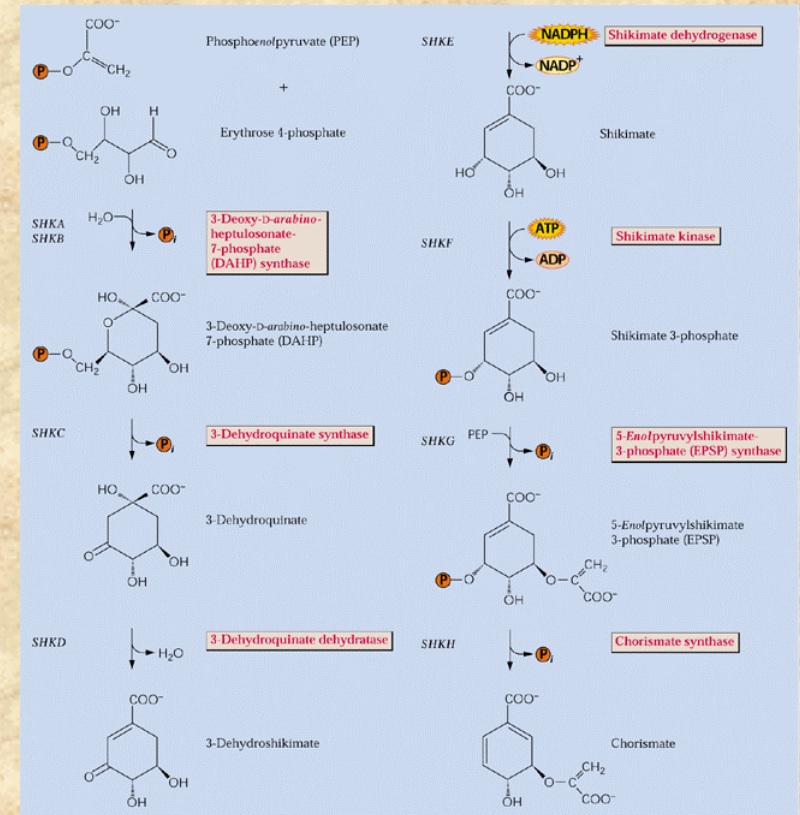
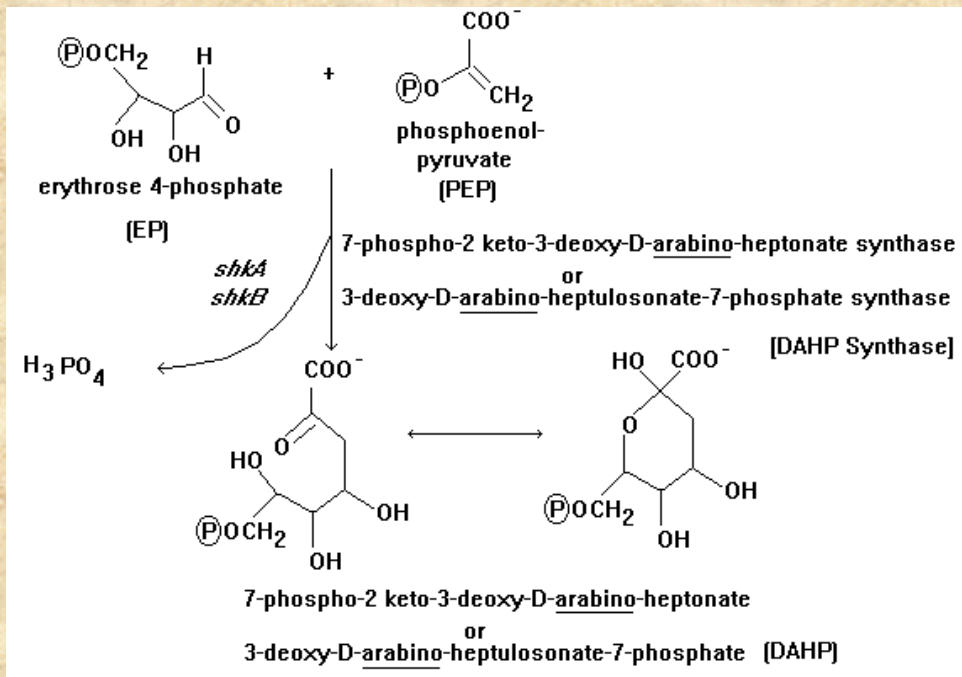
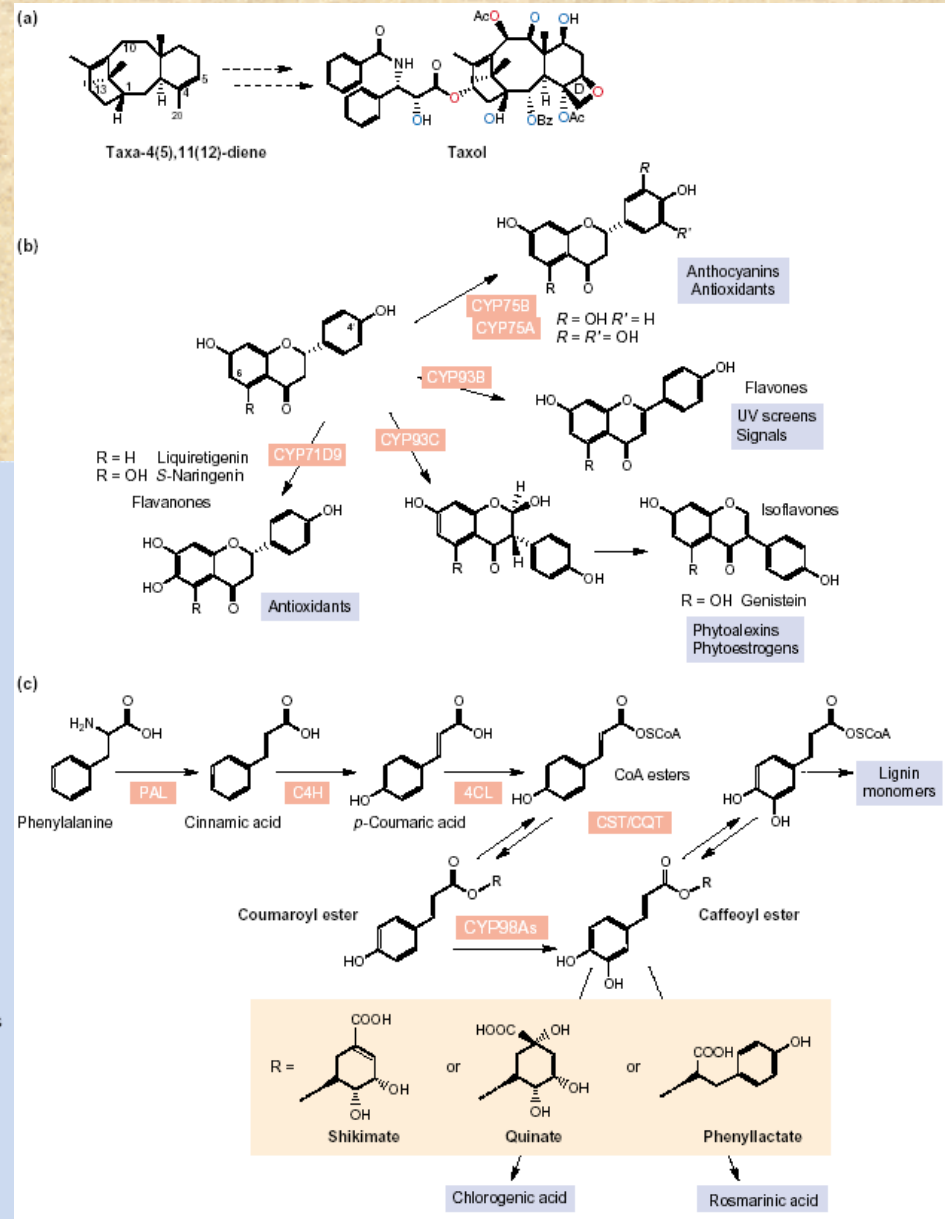
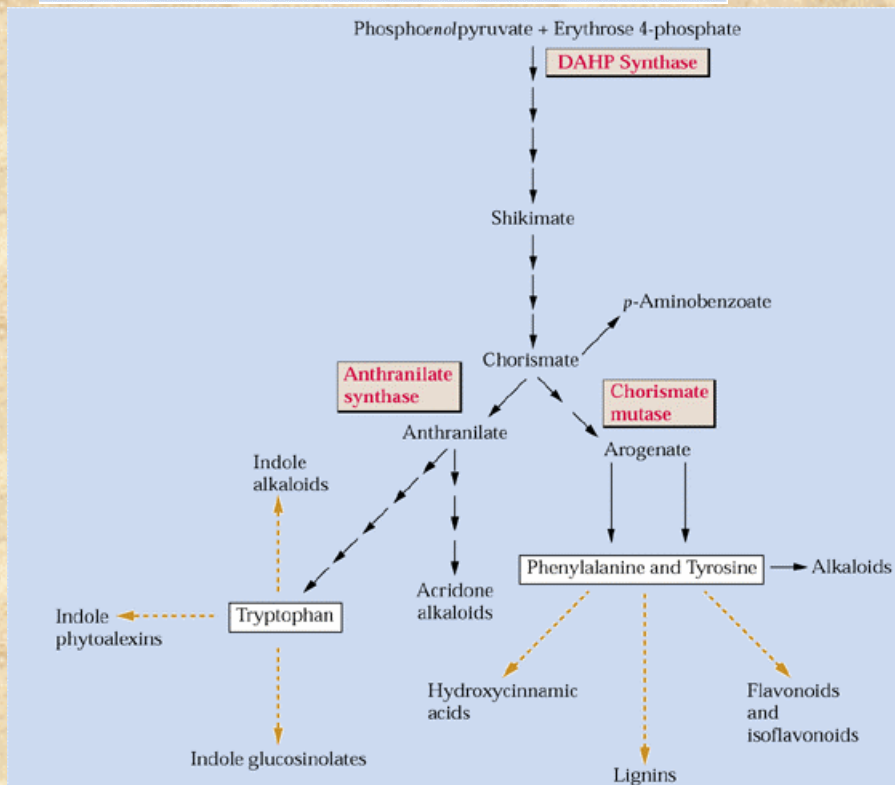
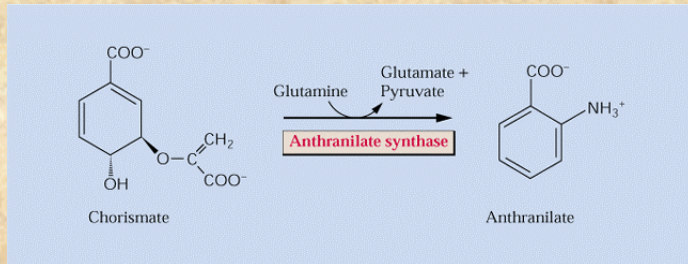


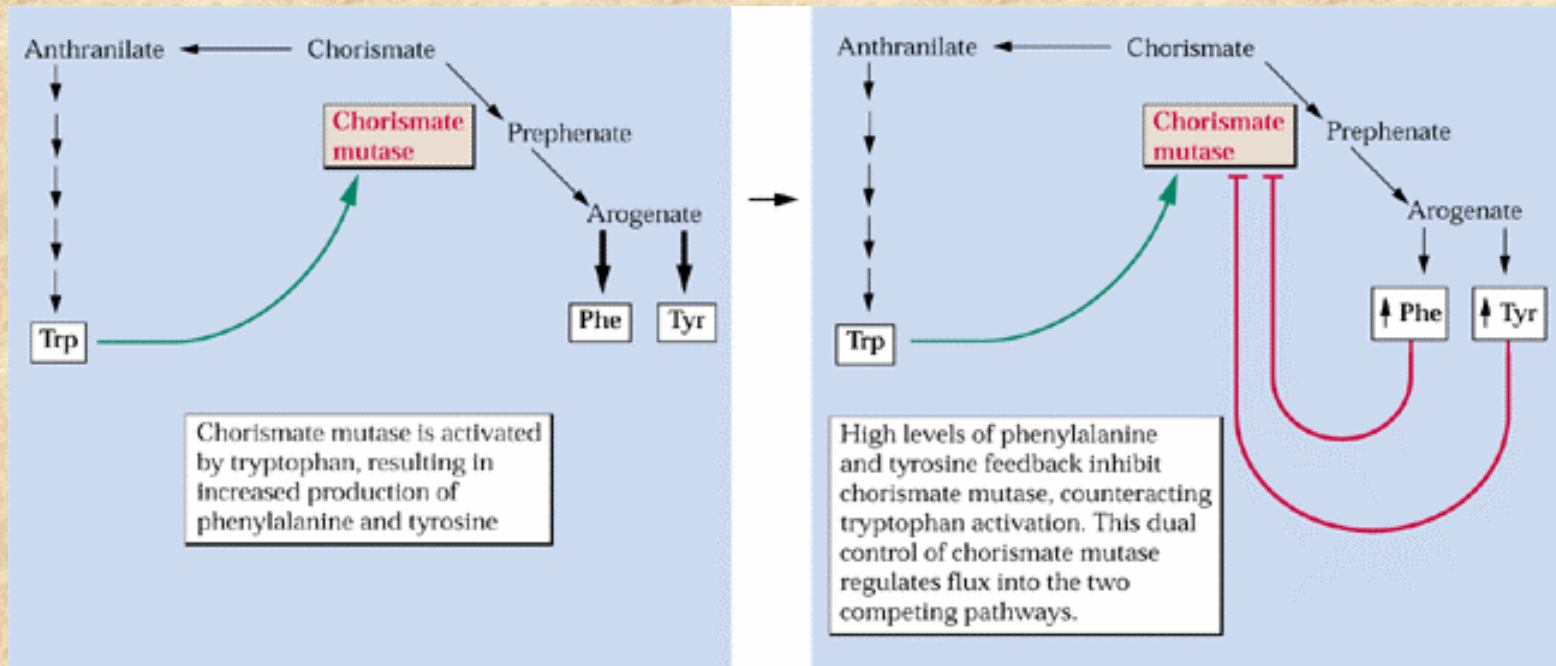
El ácido siquímico: biosíntesis de corismato



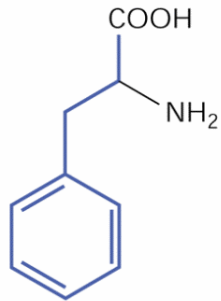
Derivados del corismato: biosíntesis de aminoácidos aromáticos



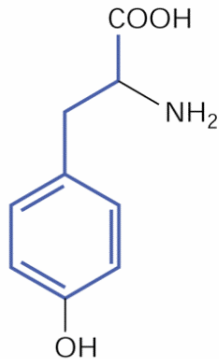
Regulación de la biosíntesis de aminoácidos aromáticos



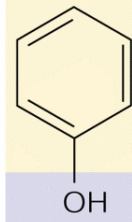
Derivados de los amino aromáticos



Phenylalanine



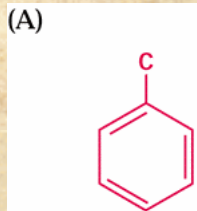
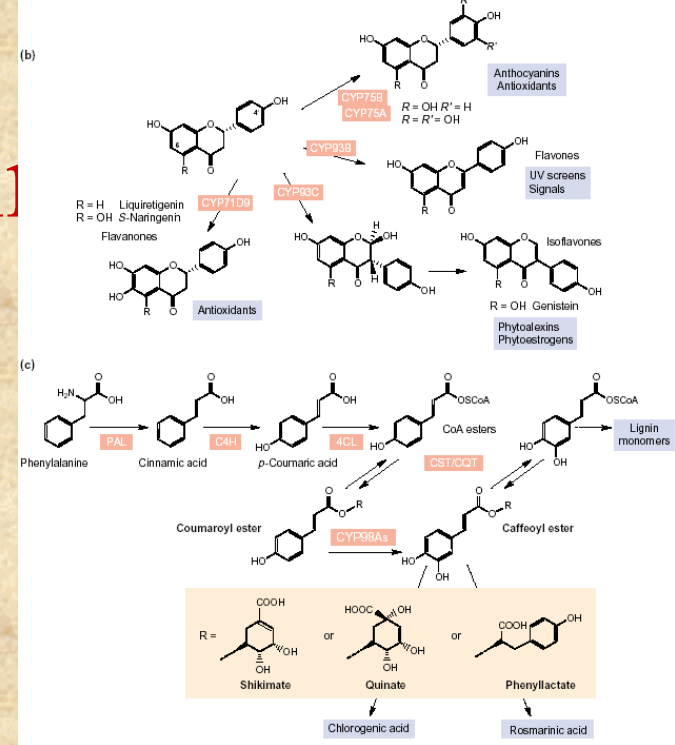
Tyrosine



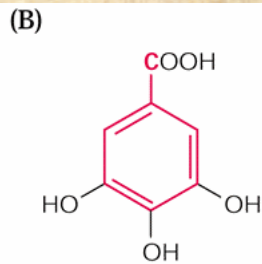
Phenyl ring

“Acidic” hydroxyl or phenolic group

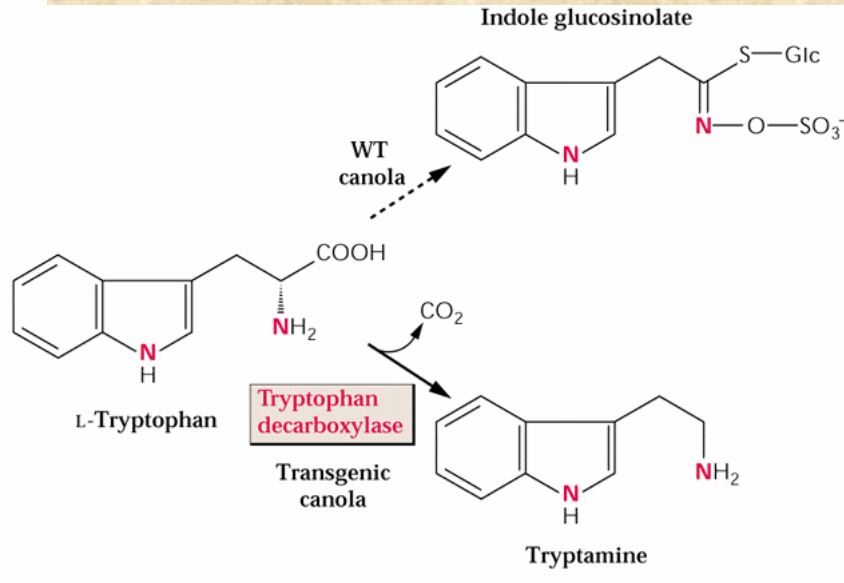
Phenol



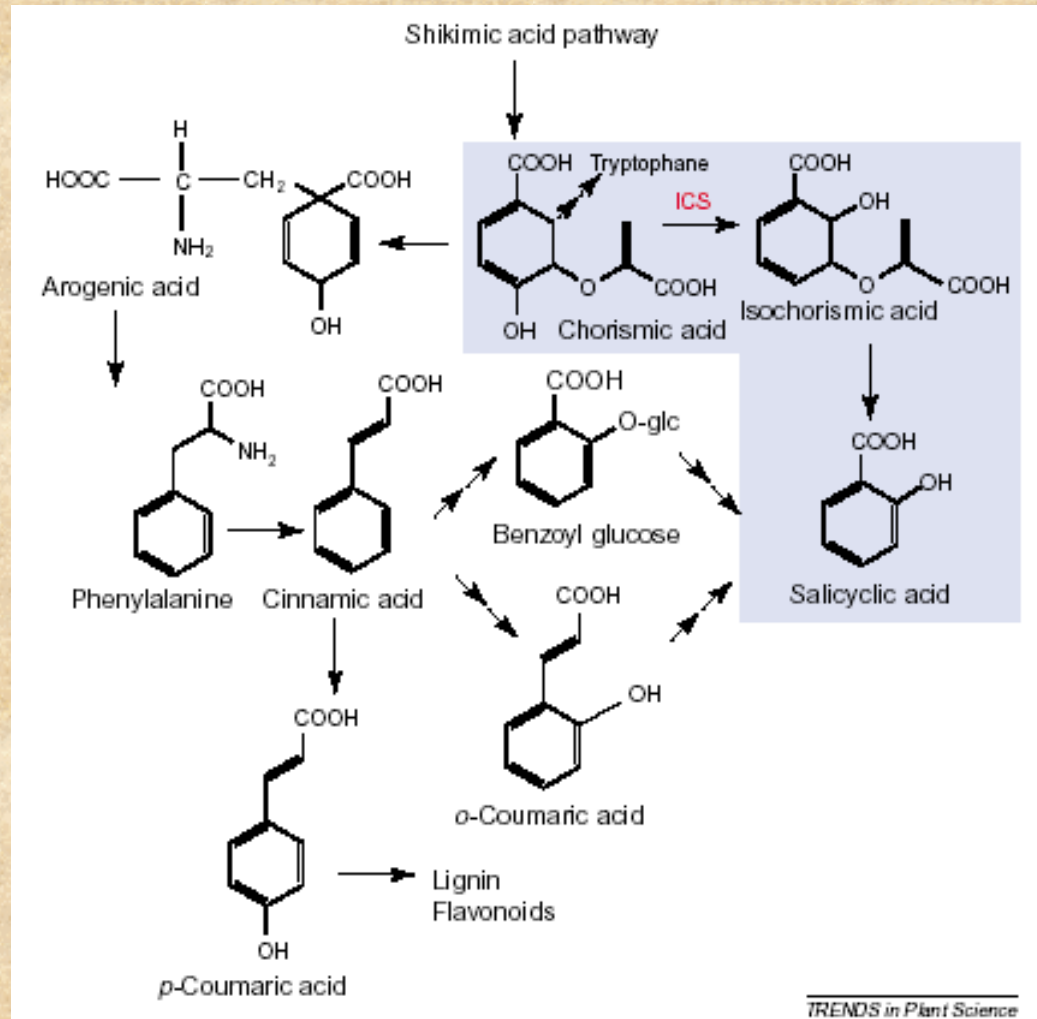
Shikimate-derived aromatic core constituent of hydrolyzable tannins (C₆C₁)



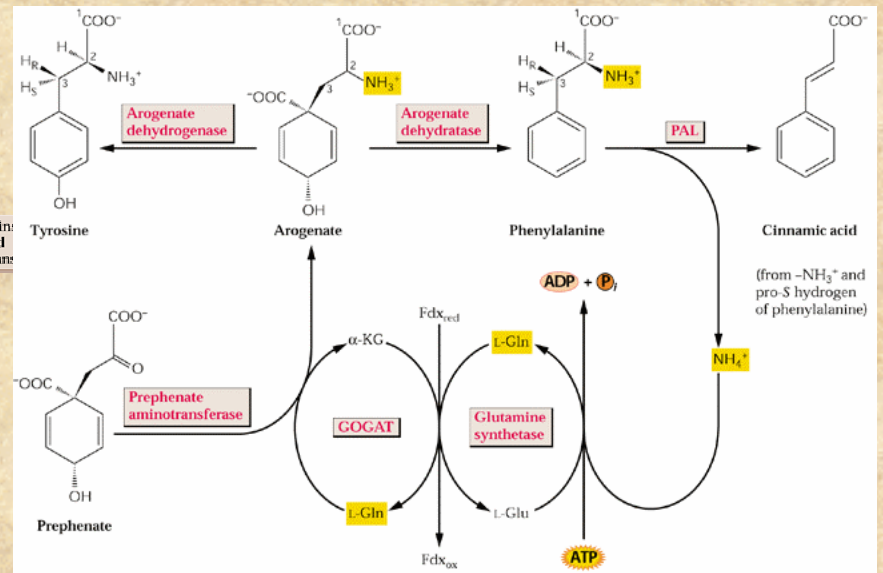
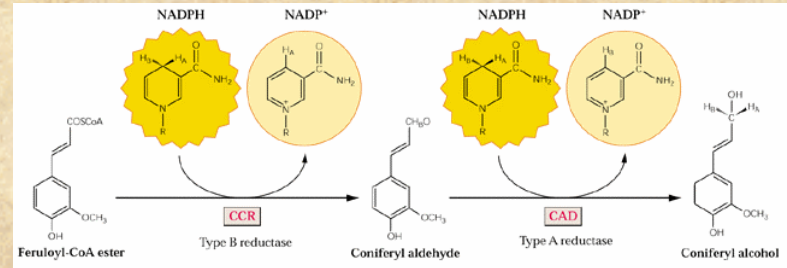
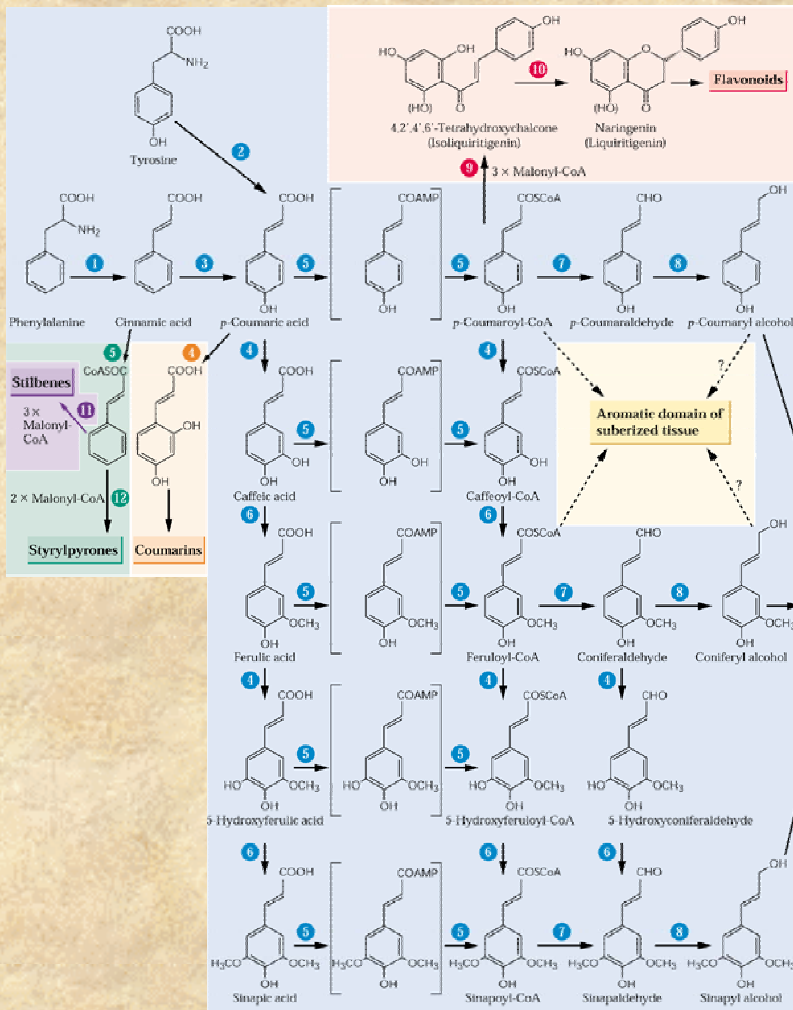
Gallic acid (C₆C₁)



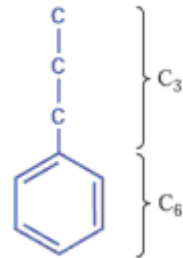
Biosíntesis del ácido salicílico



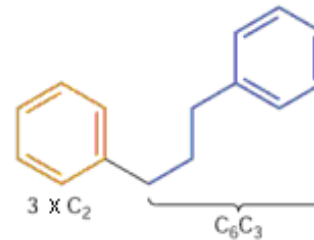
Biosíntesis de fenilpropanoides



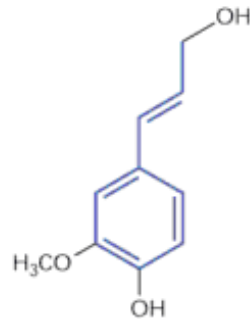
Biosíntesis de fenilpropanoides (2)



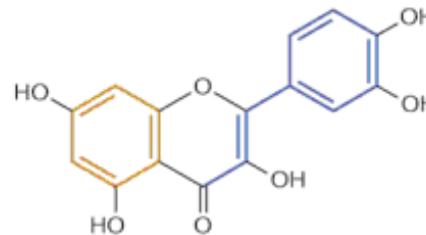
Phenylpropanoid skeleton (C_6C_3)



Phenylpropanoid-acetate skeleton ($C_6C_3-C_6$), with phenylpropanoid-derived (C_6C_3) and acetate-derived ($3 \times C_2$) rings



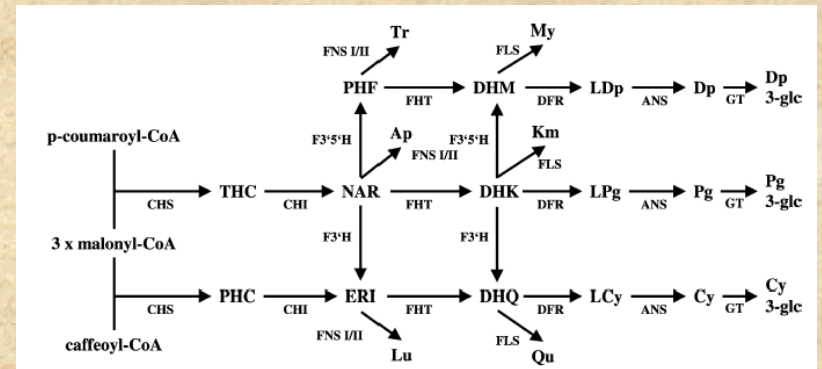
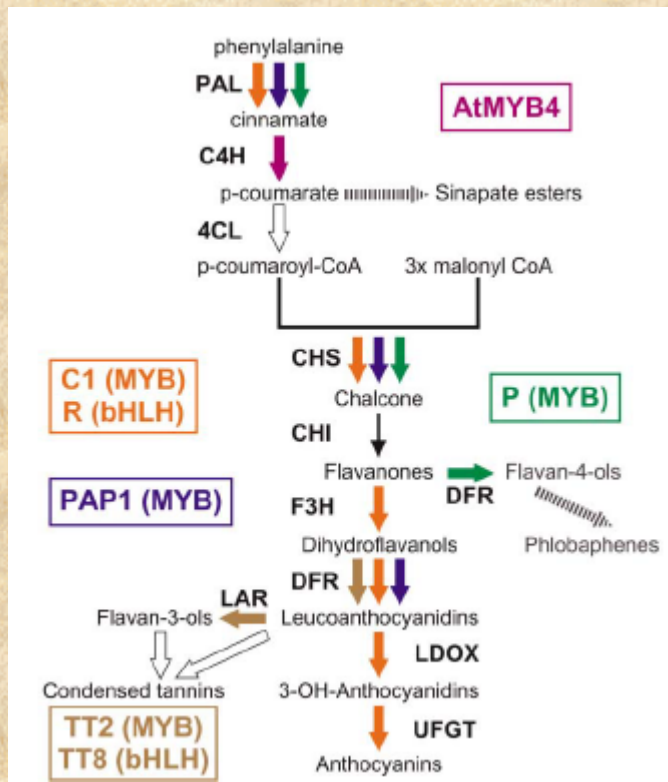
Coniferyl alcohol, a component of lignins and many lignans



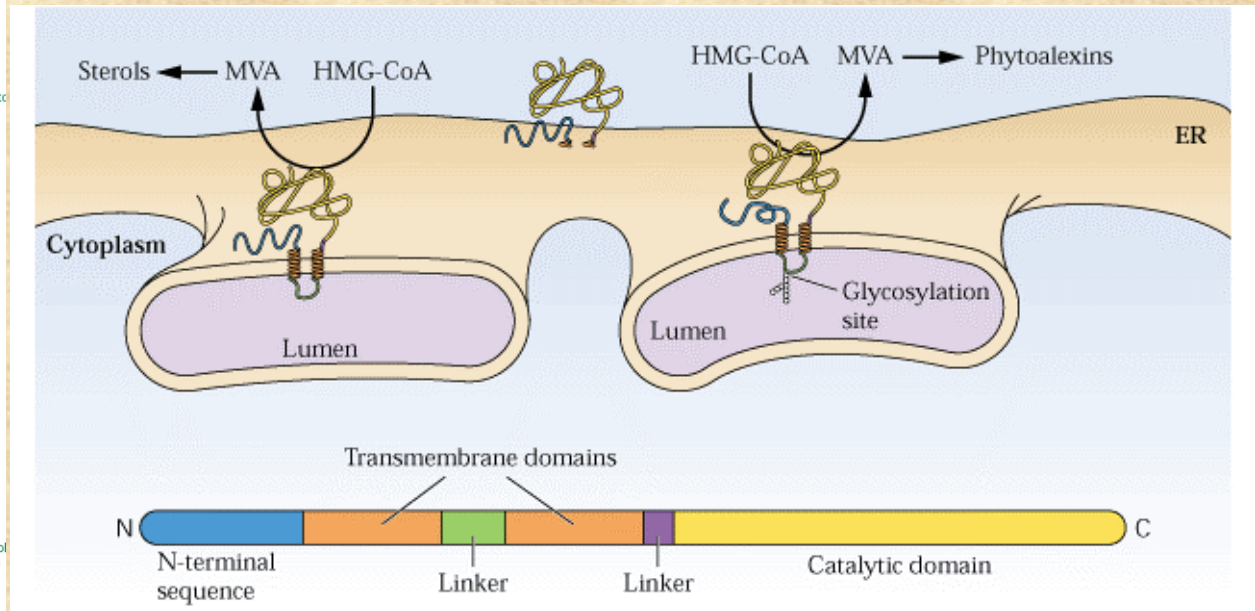
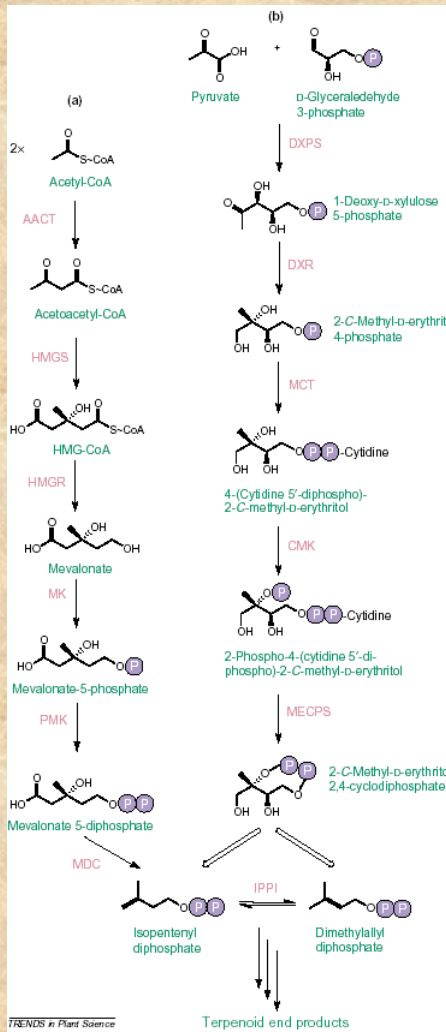
Quercetin, a flavonoid ($C_6C_3-C_6$)

— Phenylpropanoid skeleton
— Acetate-derived rings

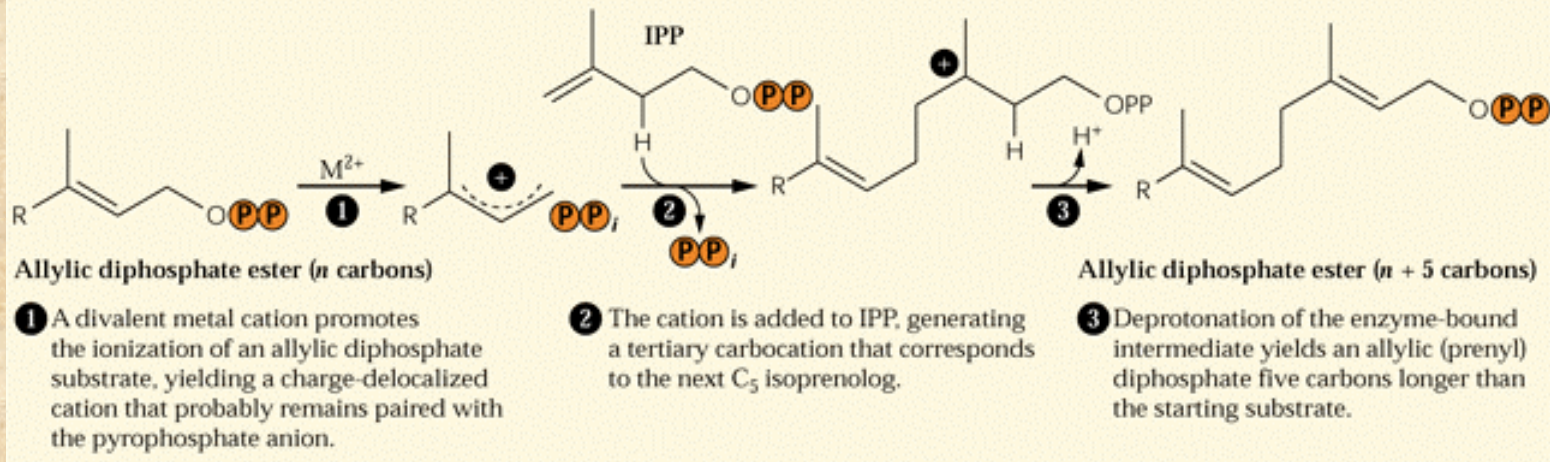
Biosíntesis de flavonoides



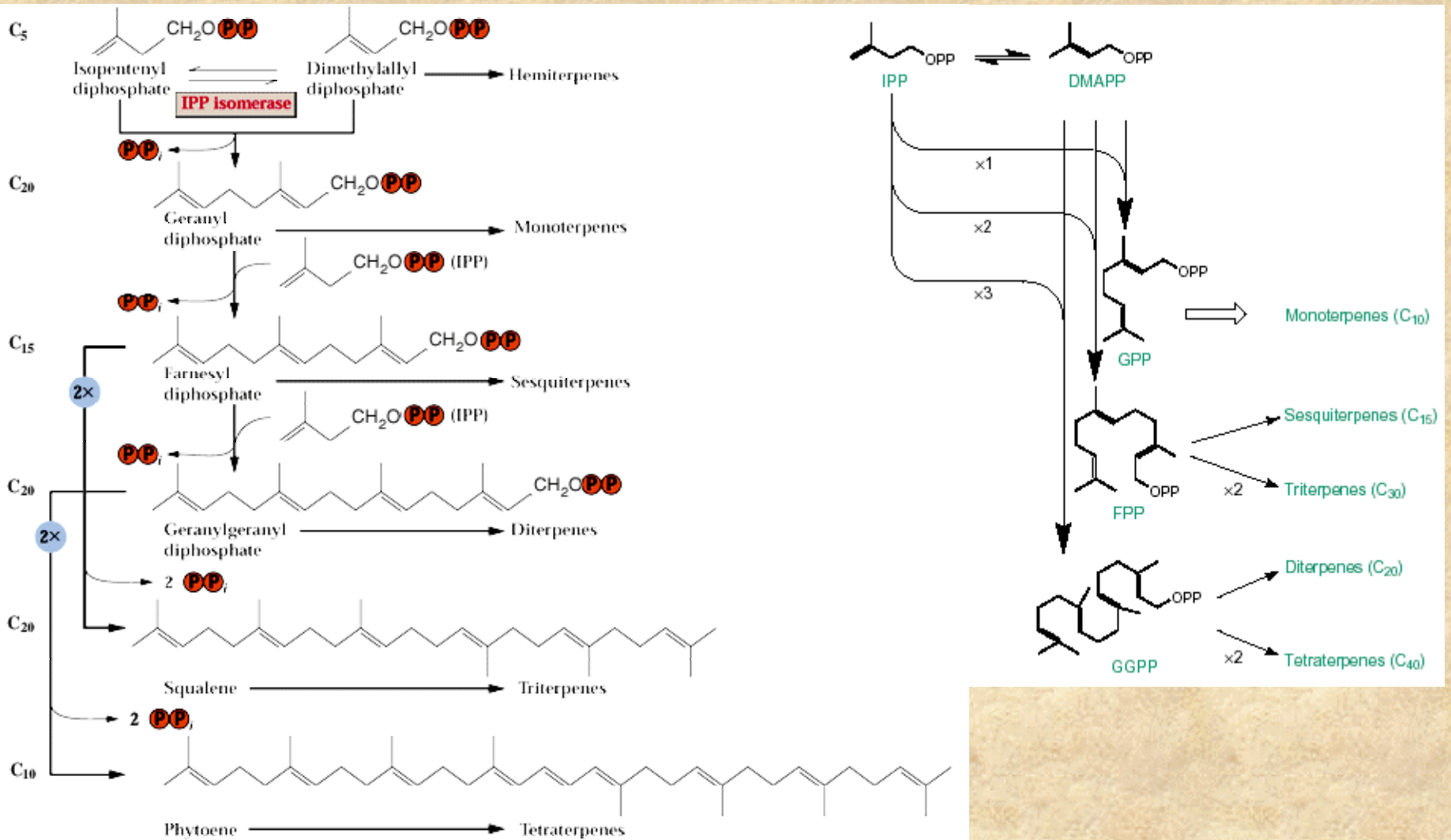
Isopreno: biosíntesis



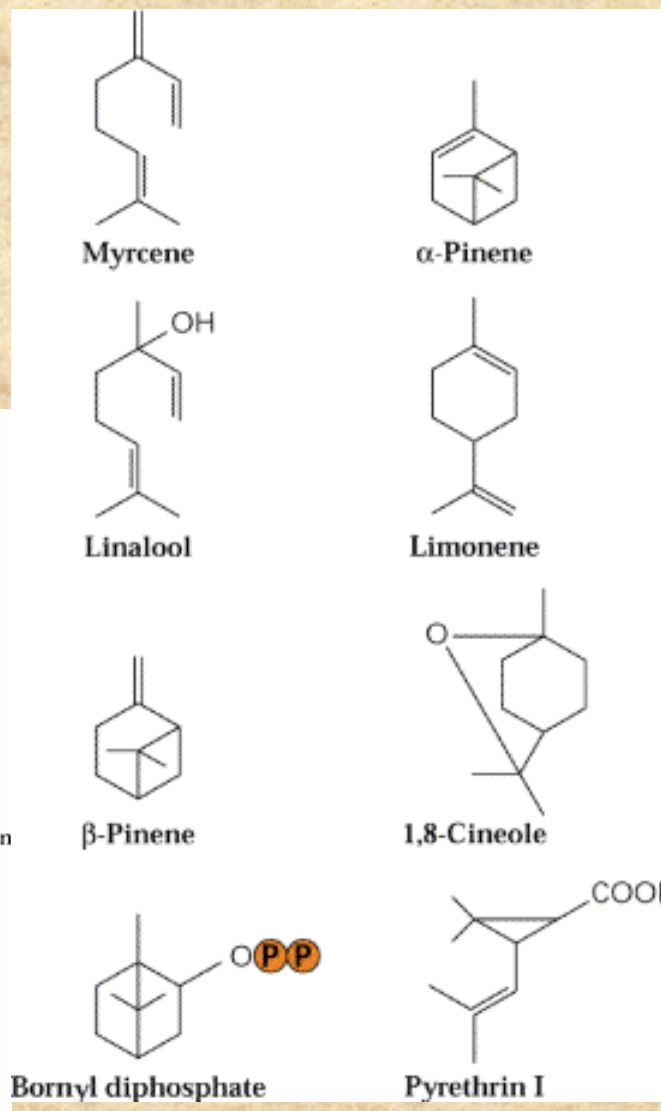
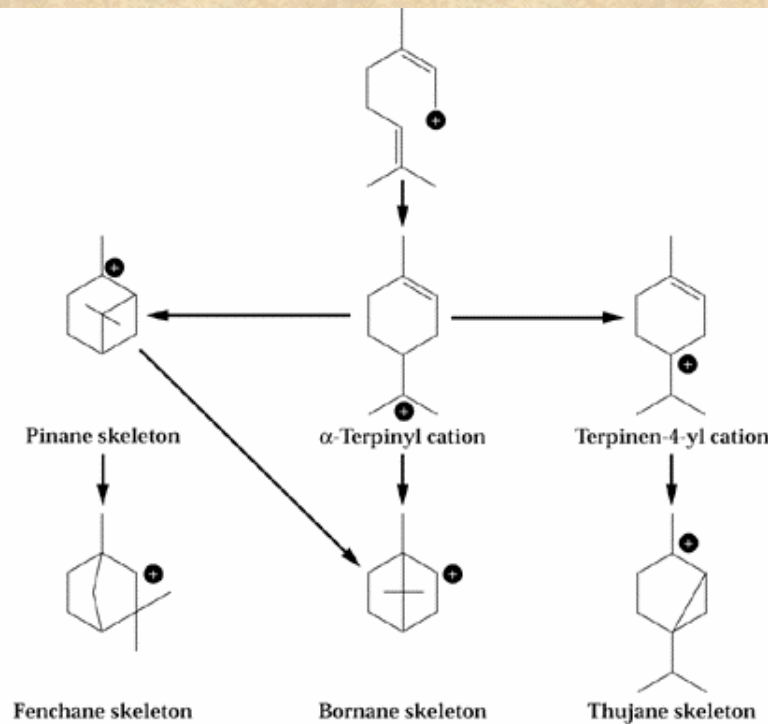
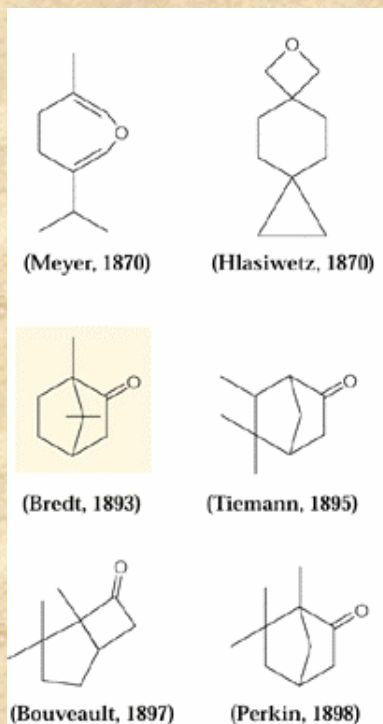
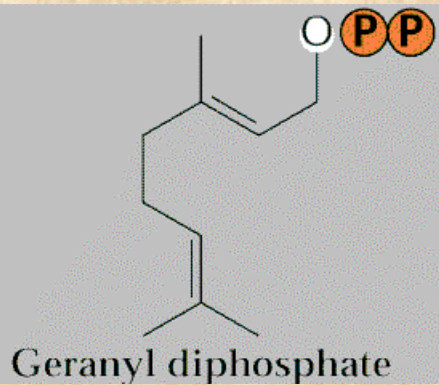
Biosíntesis de terpenos: condensación



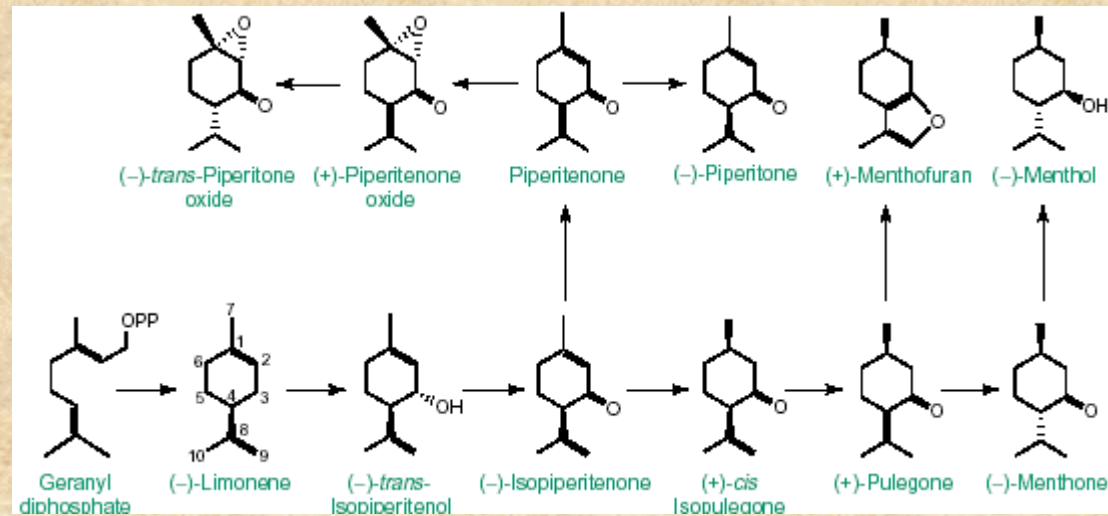
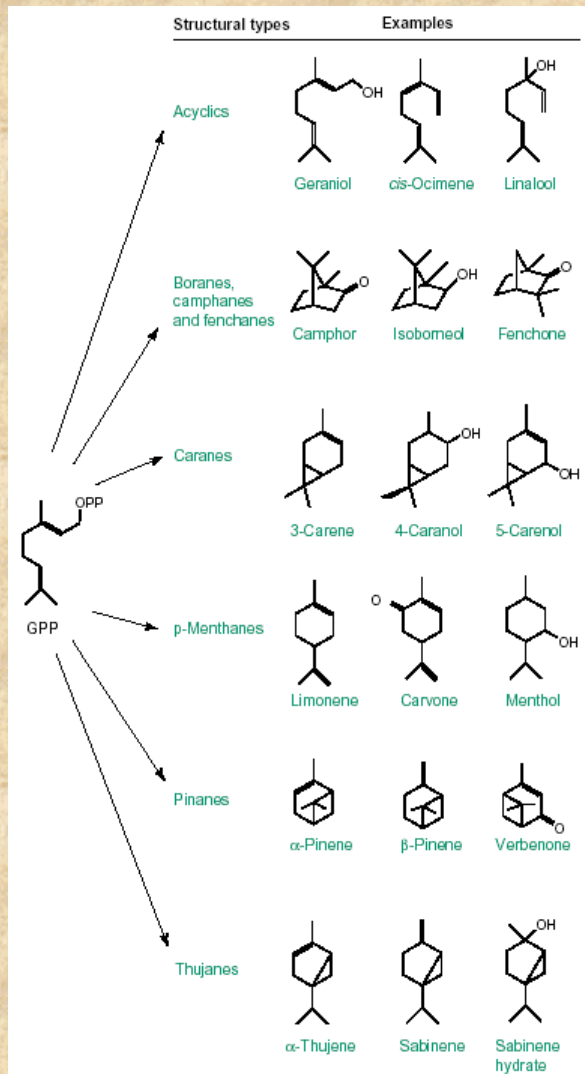
Biosíntesis de terpenos: tipos



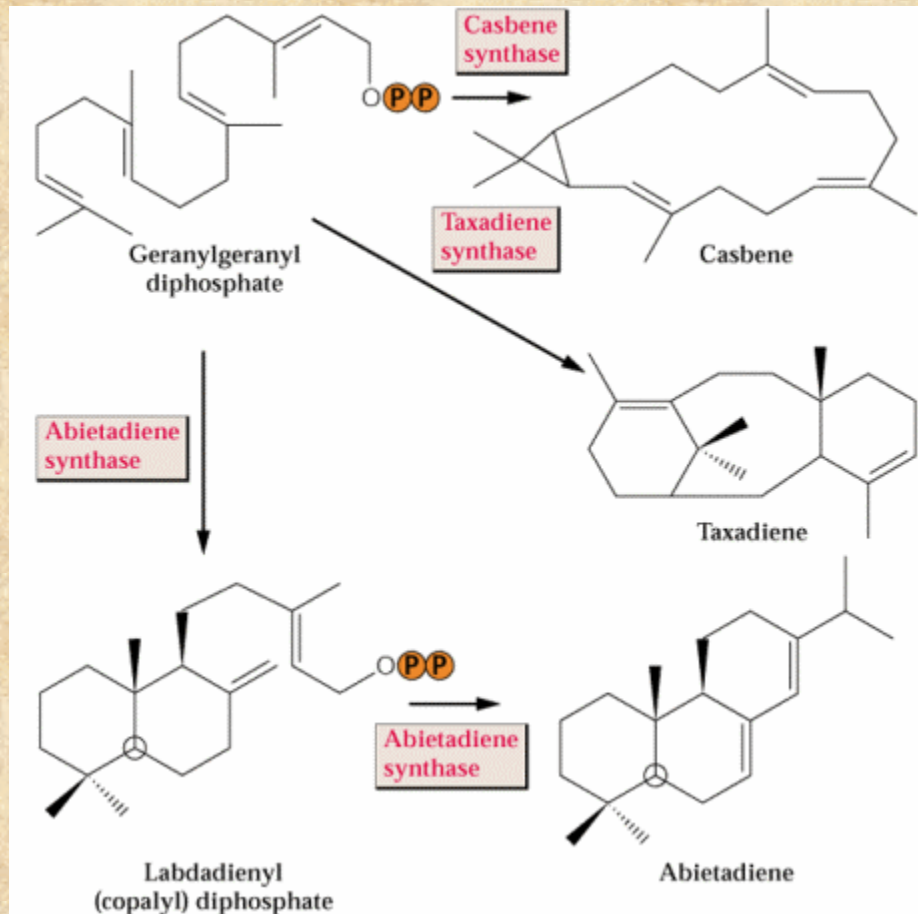
Biosíntesis de monoterpenos: ciclación



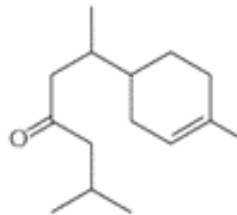
Estructura de monoterpenos:



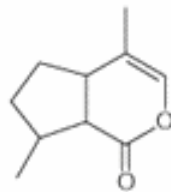
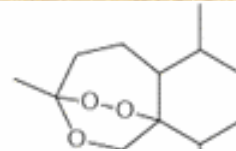
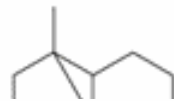
Biosíntesis de terpenos: diterpenos



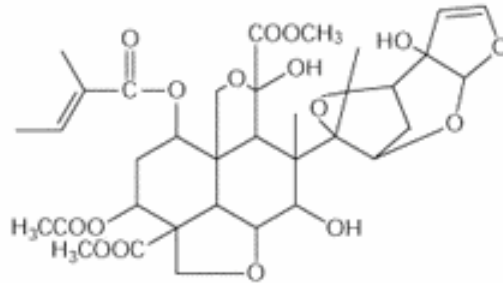
Biosíntesis de Terpenos: modificaciones secundarias



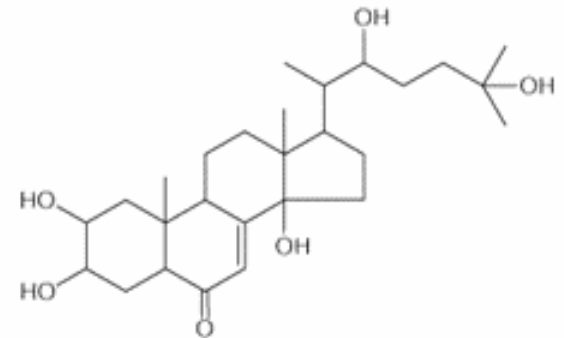
Juvabione
(insect juvenile hormone analog)



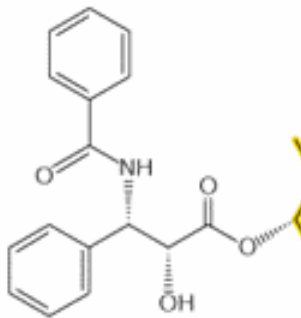
Nepetalactone
(active principle of catnip)



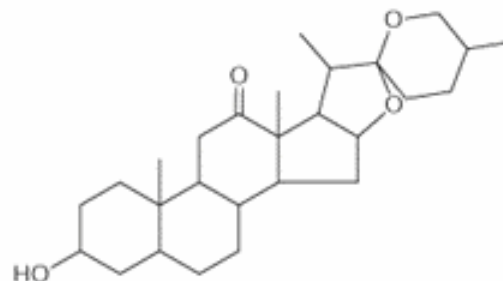
Azadirachtin A
(insect antifeedant)



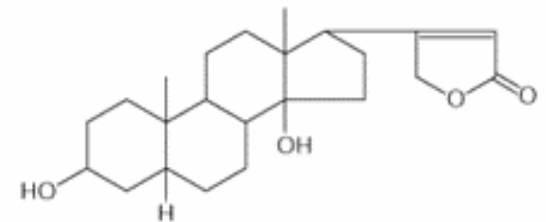
α-Ecdysone
(disrupts insect molting cycle)



Taxol
(anticancer dr)

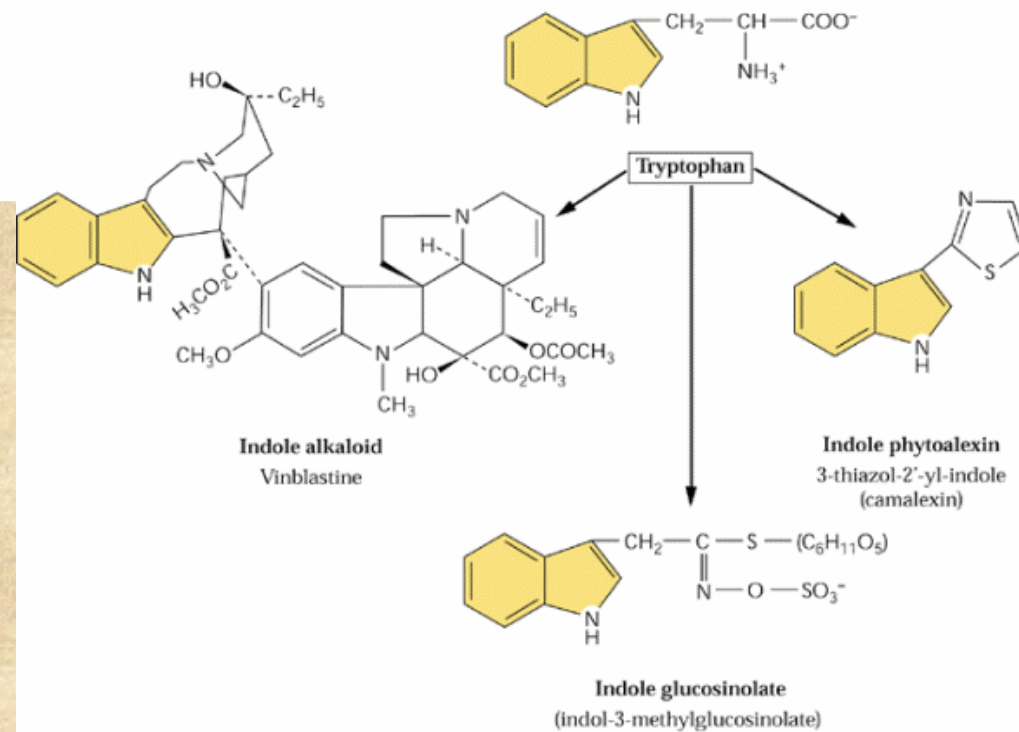
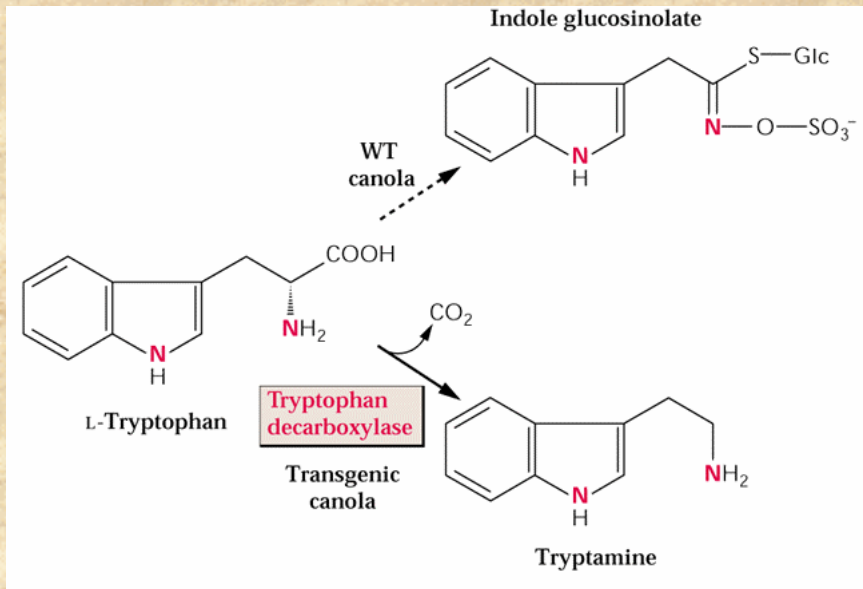


Hecogenin,
the aglycone of a saponin
(a detergent)

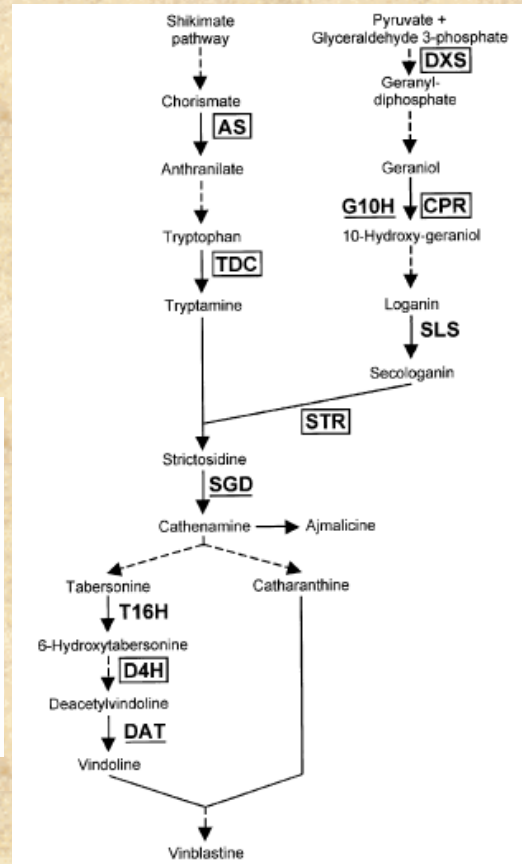
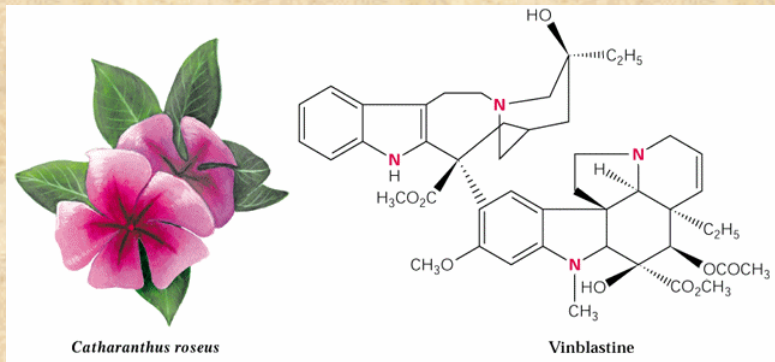
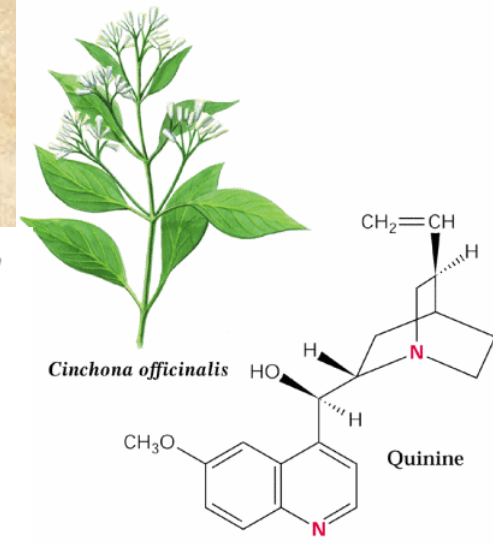
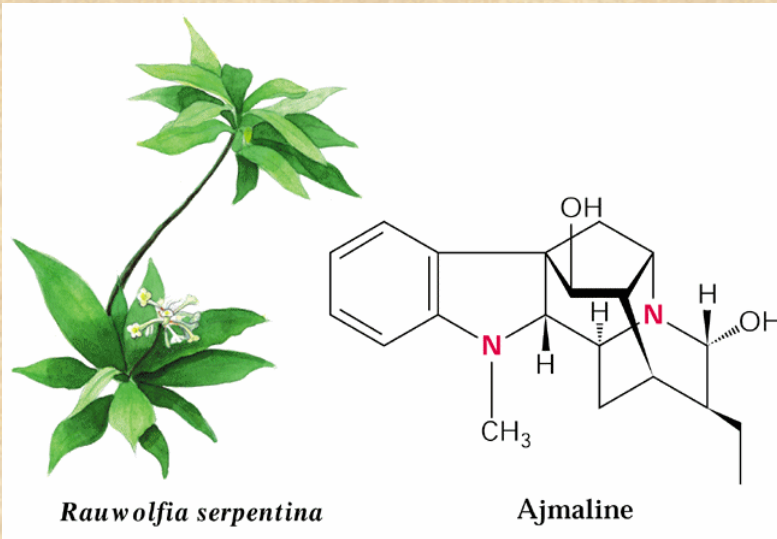


Digitoxigenin,
the aglycone of digitoxin, a cardenolide
(treatment of congestive heart disease)

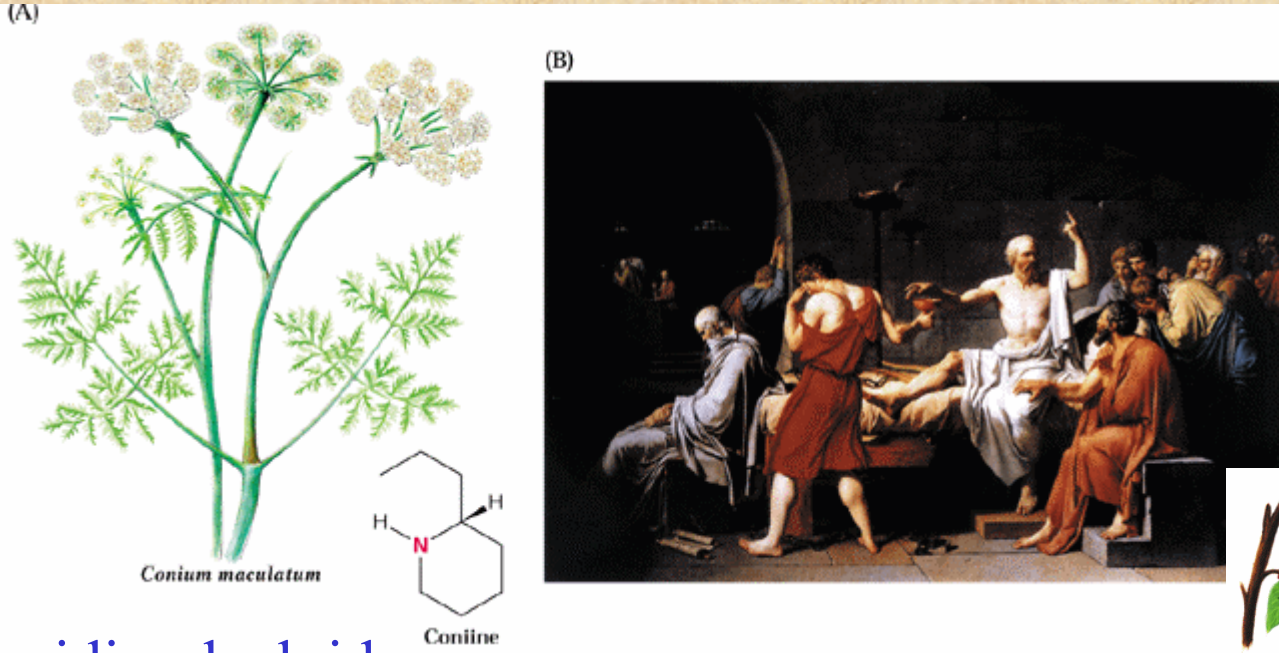
Alcaloides derivados de Trp



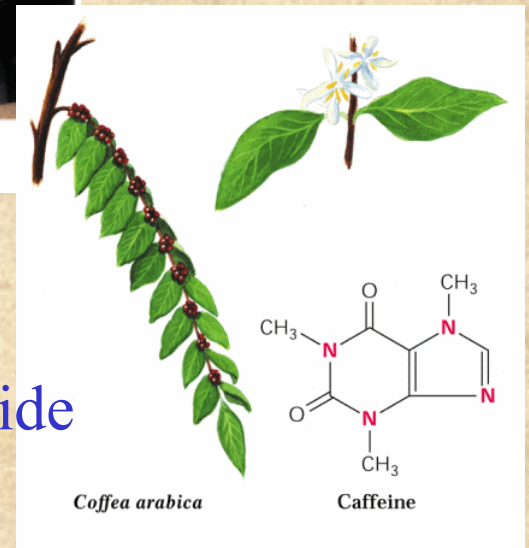
Monoterpenoidindol alkaloids: biosíntesis



Alcaloides derivados de bases nitrogenadas



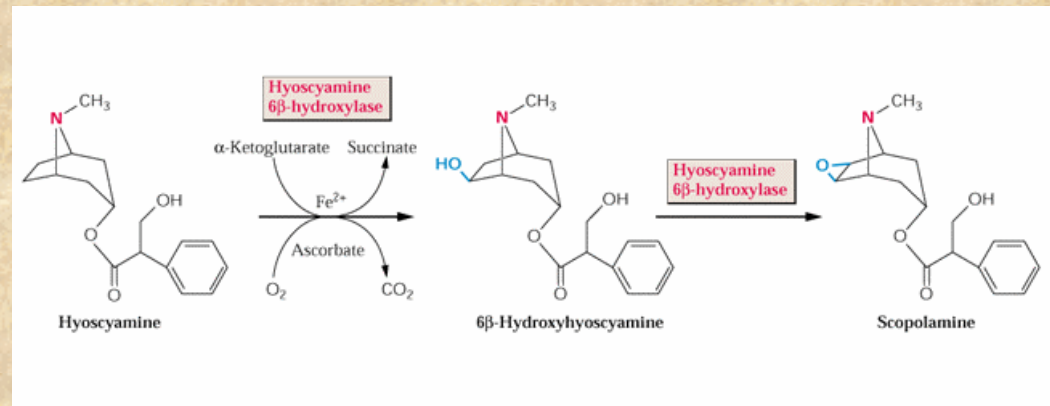
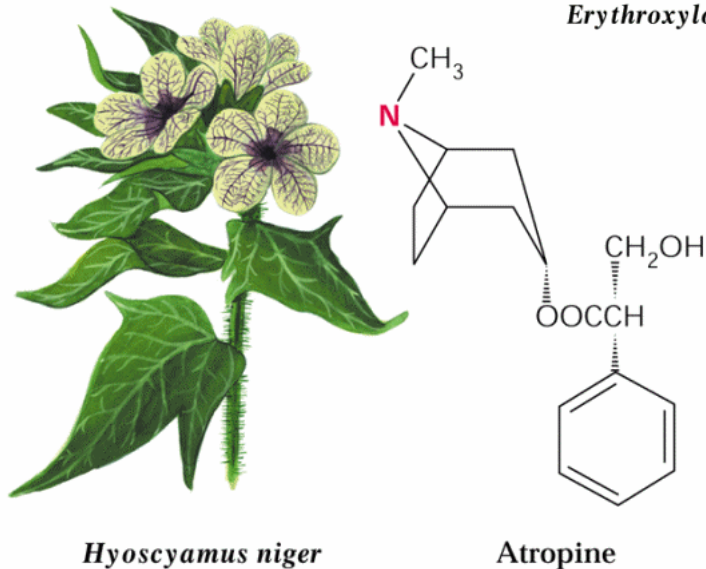
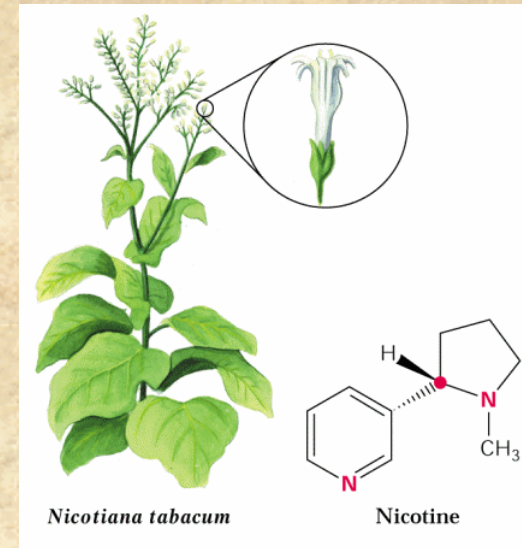
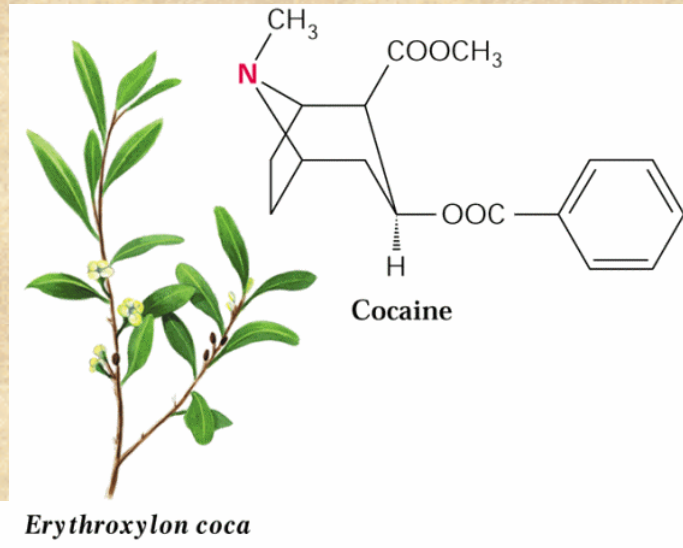
Piperidin-alcaloide



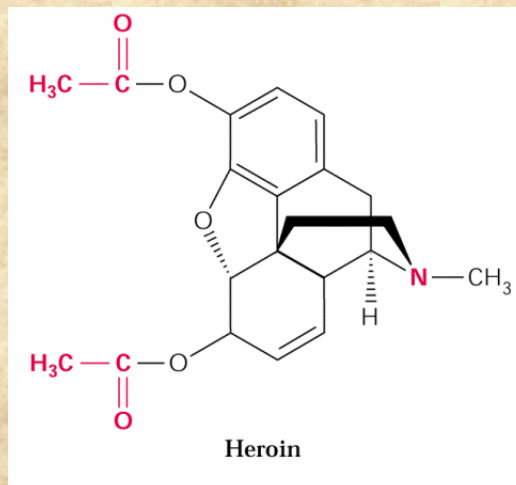
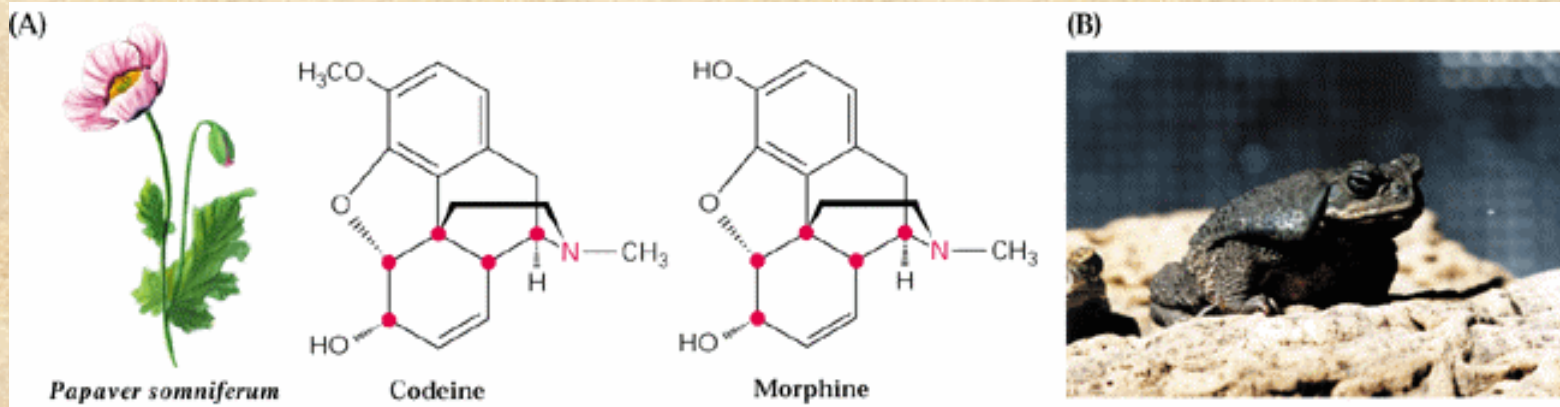
Purin-alcaloide

Alcaloides derivados del tropano y la nicotina

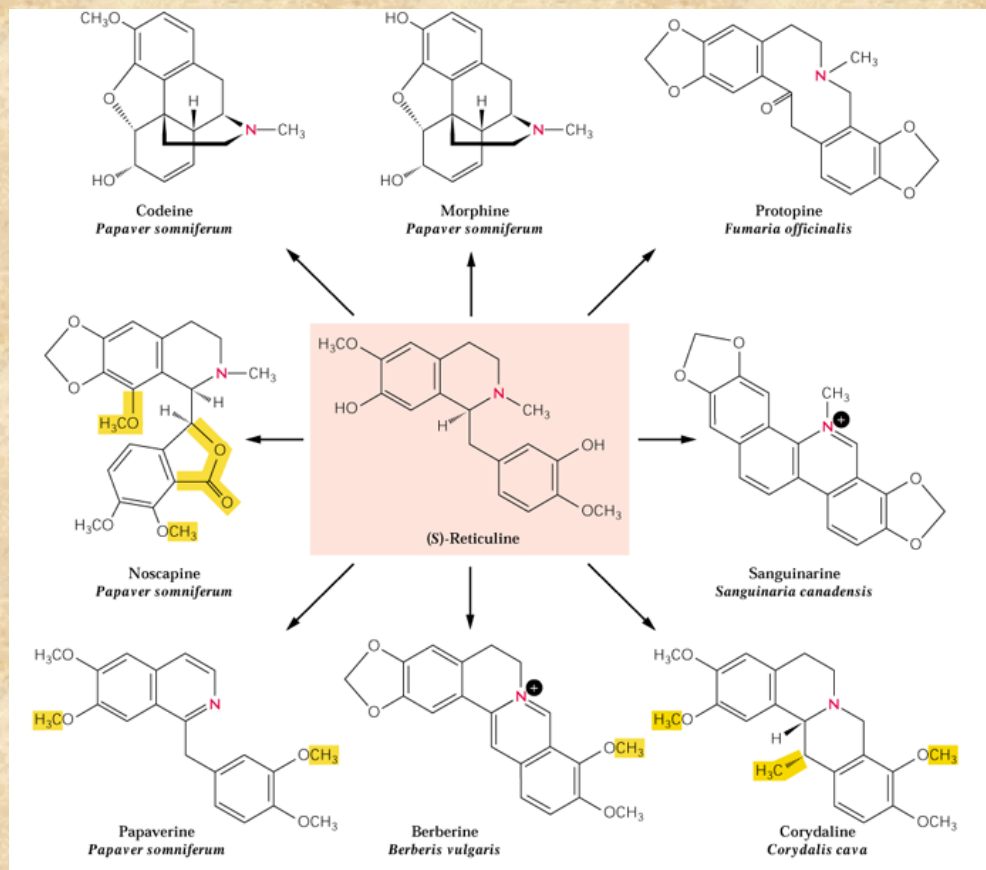
Alcaloides derivado del tropanos



Alcaloides derivados de la reticulina



Alcaloides derivados de la reticulina



Manipulación del metabolismo secundario

