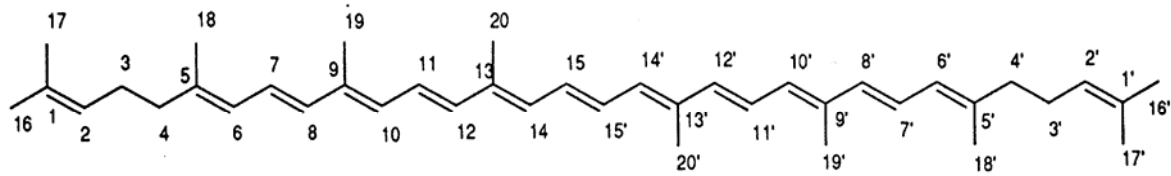
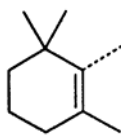


2.7.5 Karotenoidy

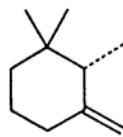
Počet karotenoidů a jejich intermeidátních forem je vyšší než 100; tyto tetrapeterpenoidy jsou složeny z 8 isoprenoidních jednotek, mají charakteristické chromofory, systém dvojných vazeb: výsledkem je žlutá až temně červená barva.



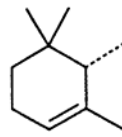
Lycopene = ψ,ψ -Carotene



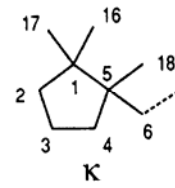
β



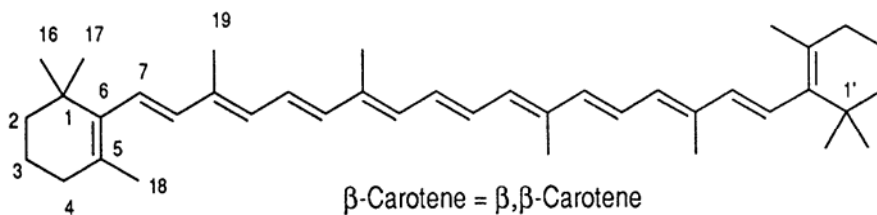
γ



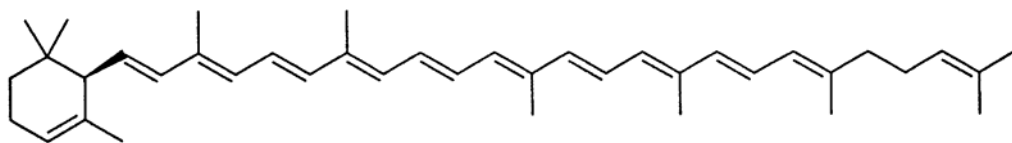
ϵ



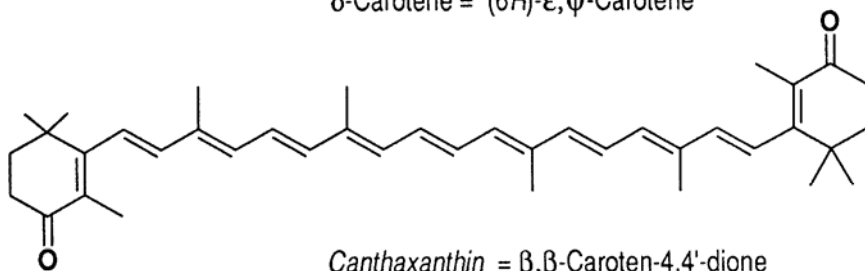
κ




β -Carotene = β,β -Carotene




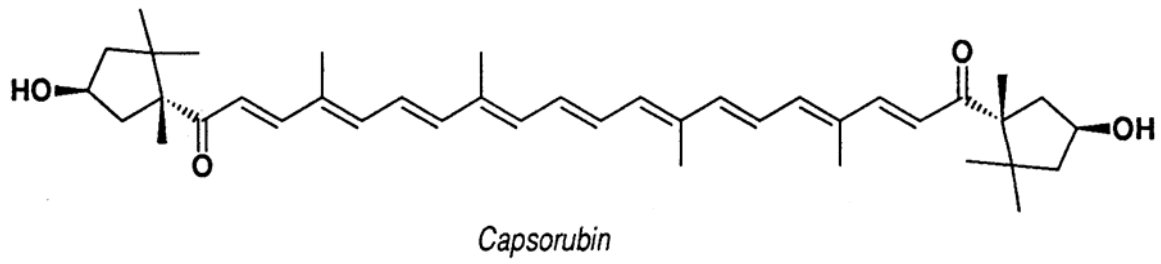
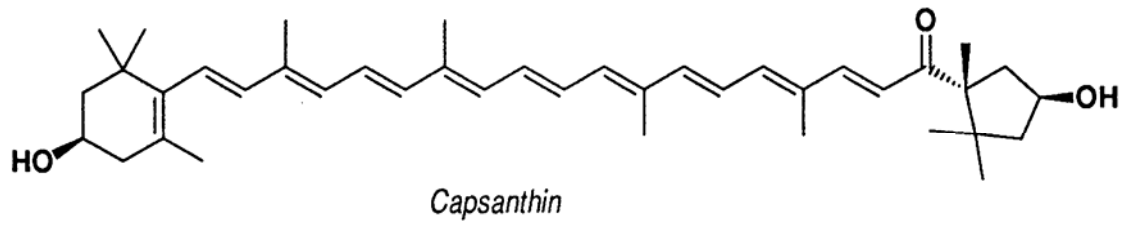
δ -Carotene = (6*R*)- ϵ,ψ -Carotene



Canthaxanthin = β,β -Caroten-4,4'-dione

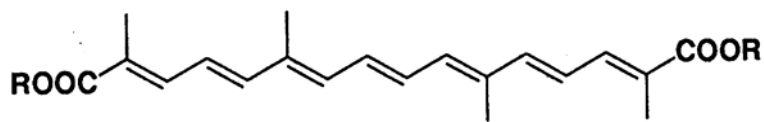
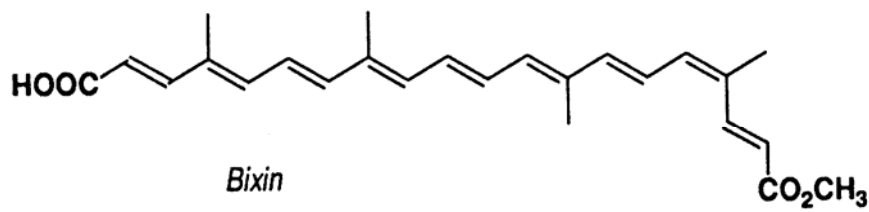
 Apiaceae - *Daucus carota*

 Solanaceae - *Capsicum* spp., *Lycopersicon esculentum*



☞ Bixaceae - *Bixa orellana* (bixin)

☞ Iridaceae - *Crocus sativus* (krocin)



R = H : *Crocetin*

R = β -D-Glc-(1 \rightarrow 6)- β -D-Glc-(1 \rightarrow) : *Crocin*

