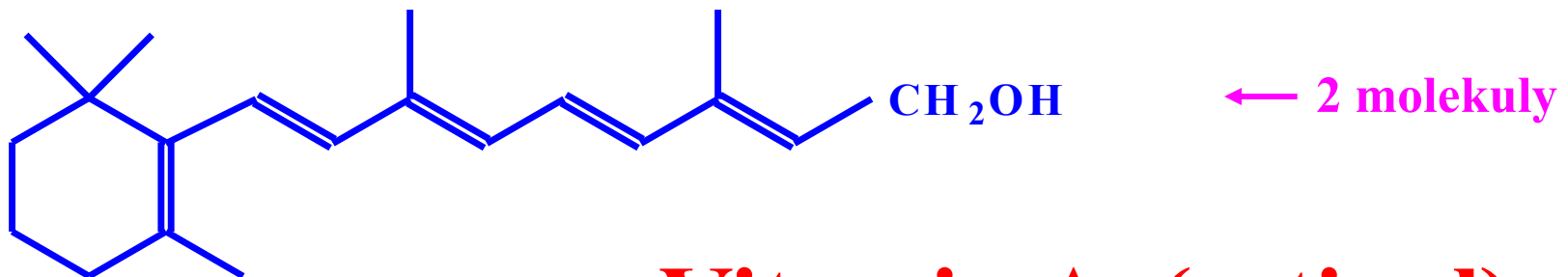
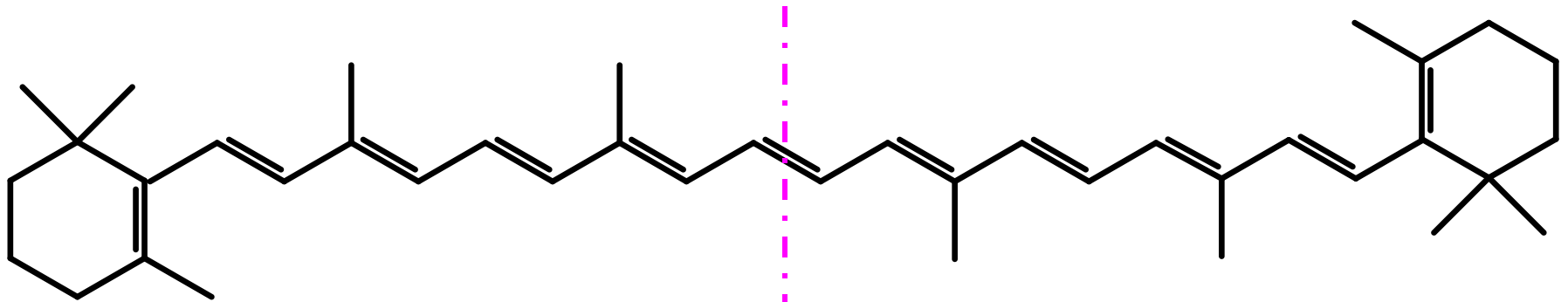


VIDĚNÍ

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β -karoten

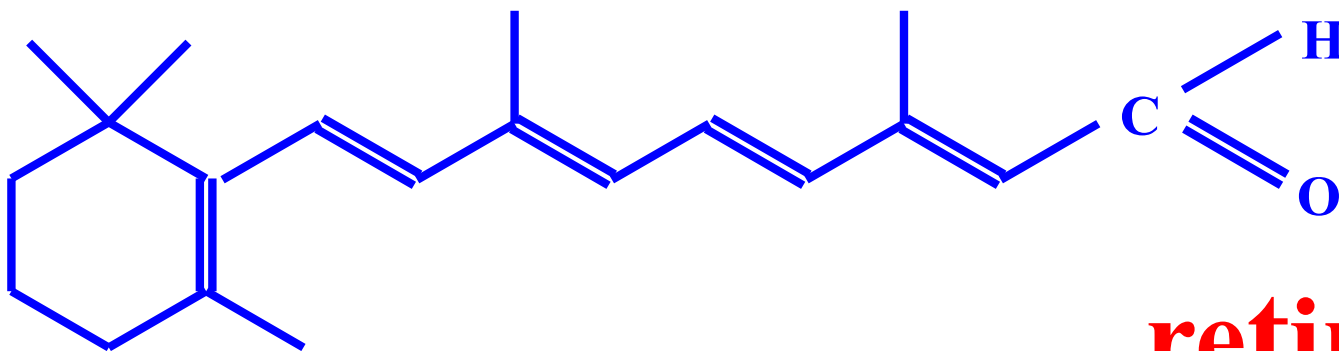
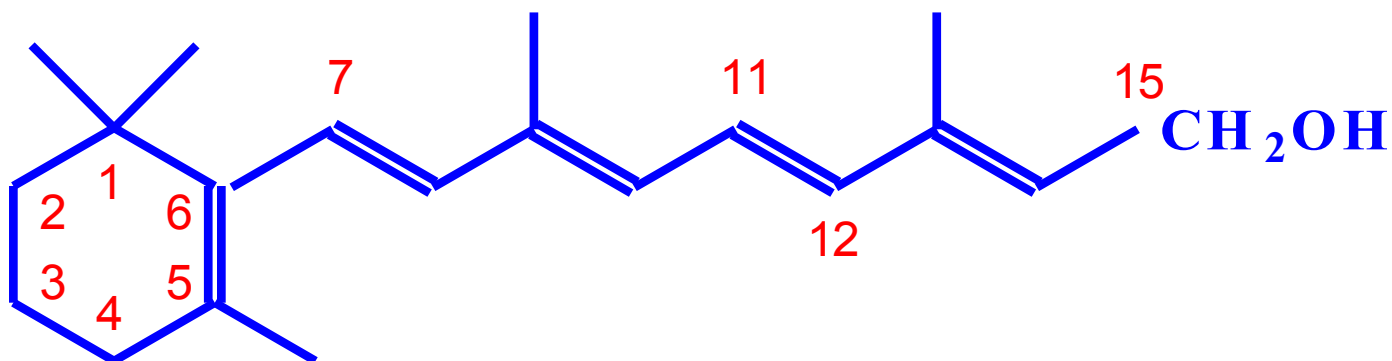
C_{40} (tetraterpen) 8 isoprenových jednotek, systém konjugovaných dvojných vazeb zasahuje i do obou β -iononových kruhů, symetrie molekuly



Vitamin A (retinol)

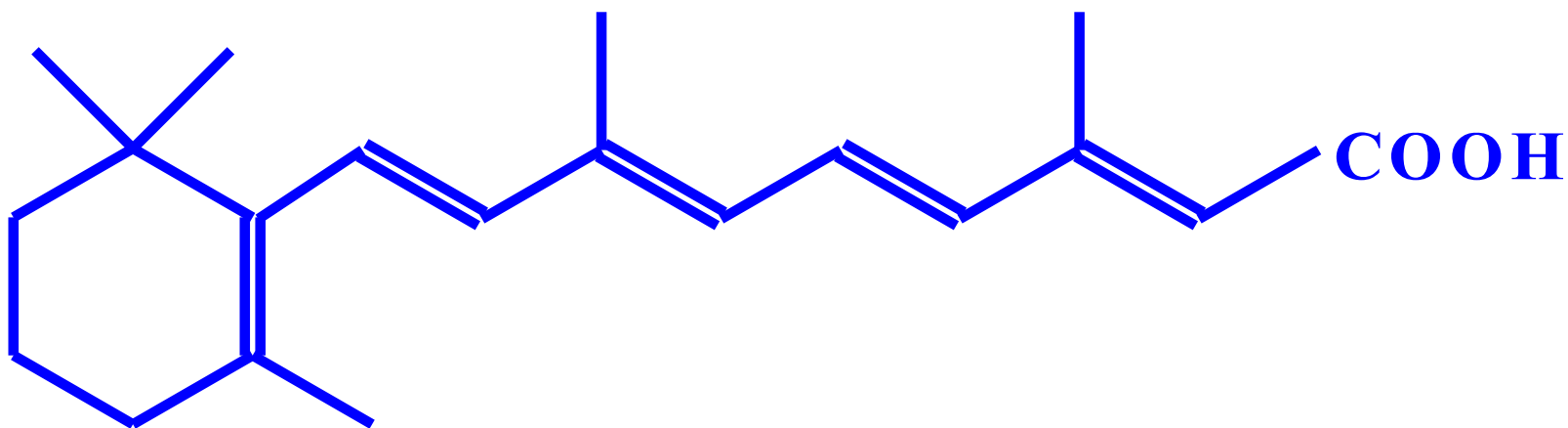
Vitamin A (retinol)

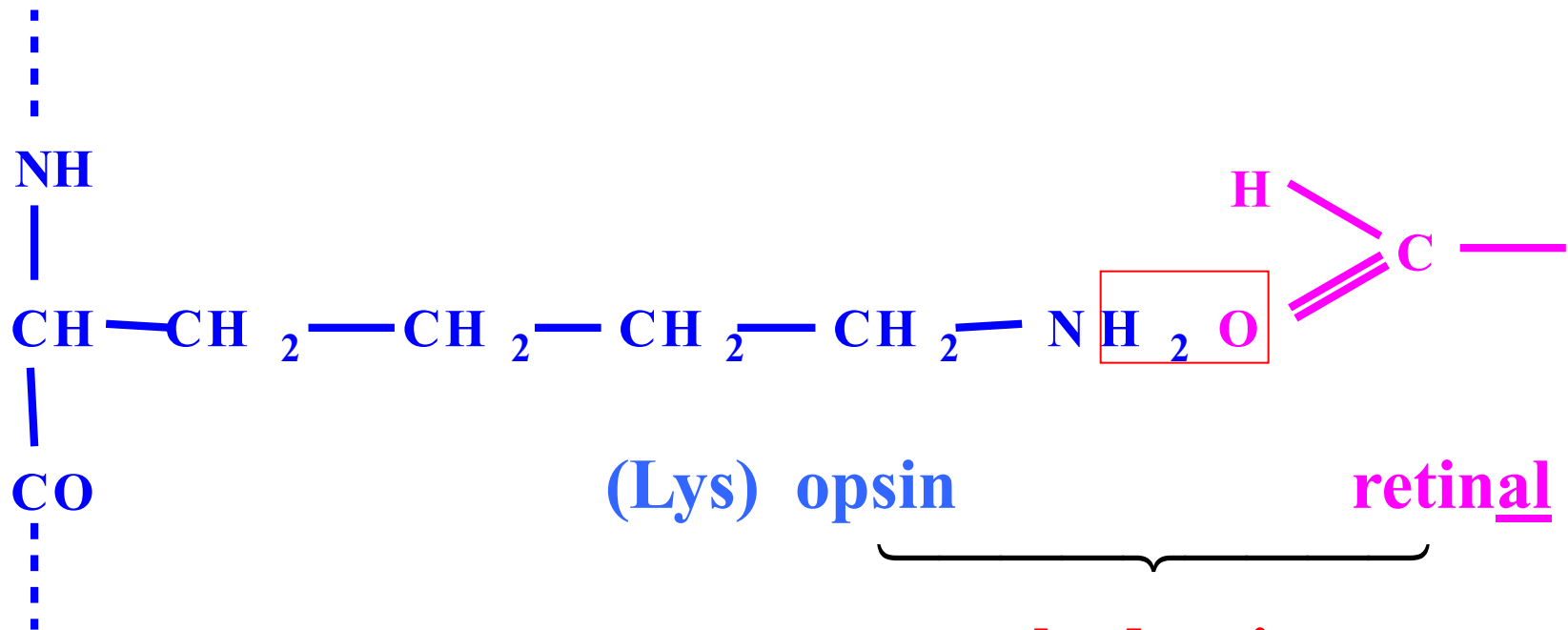
(číslování zahrnuje hlavní řetězec)



retinal

Retinová kyselina :

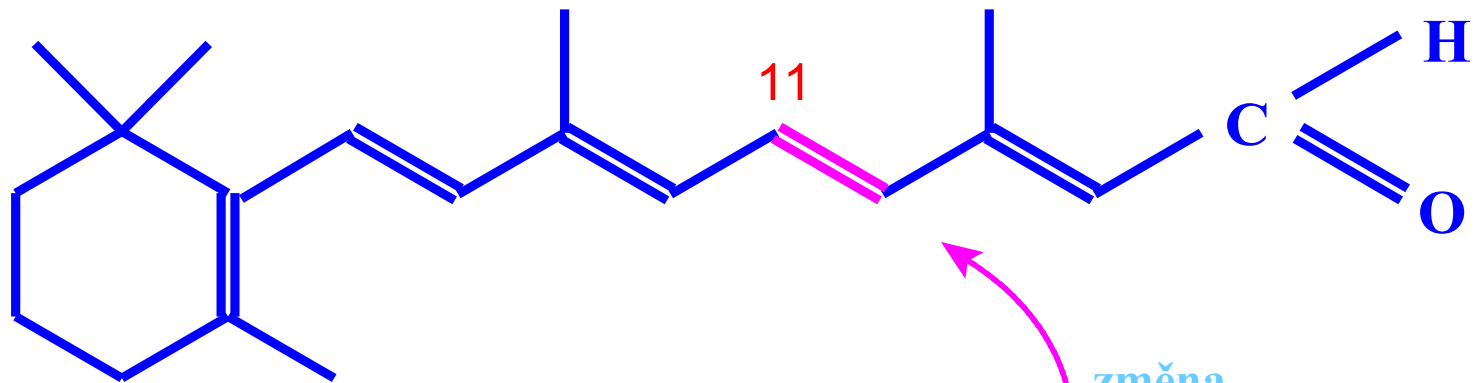




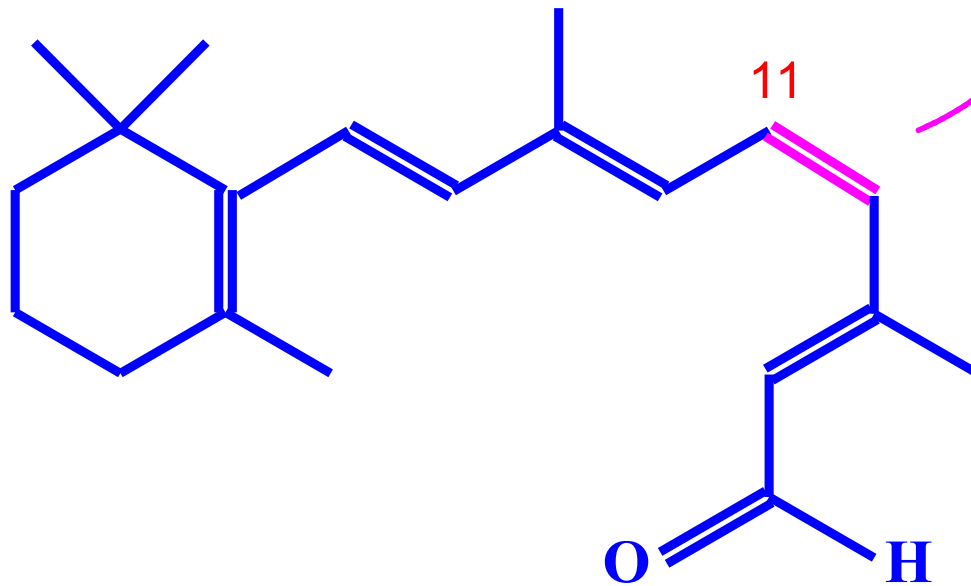
rhodopsin

aldimin (Schiffova báze)

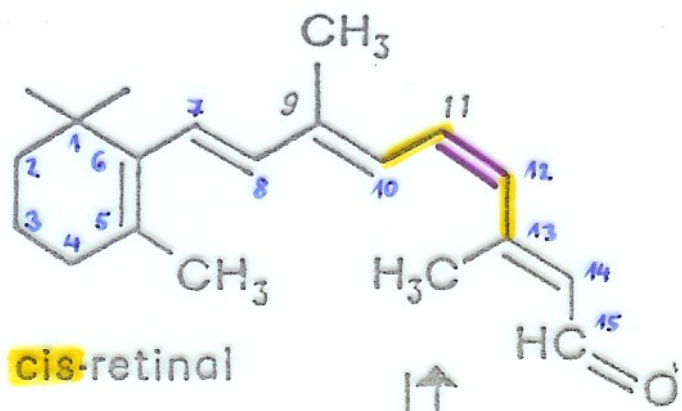
11-*trans*-retinal (all-*trans*-...)



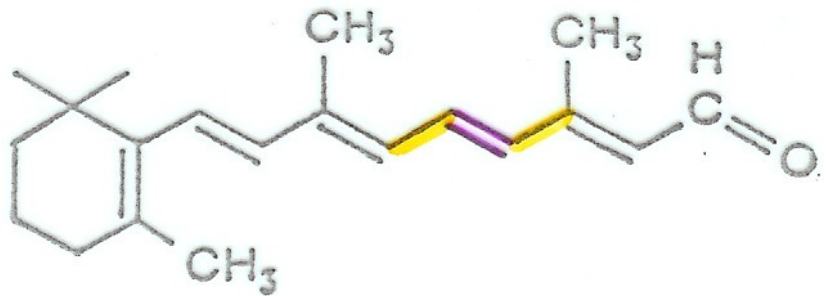
změna
vlivem
světla (rhodopsin)



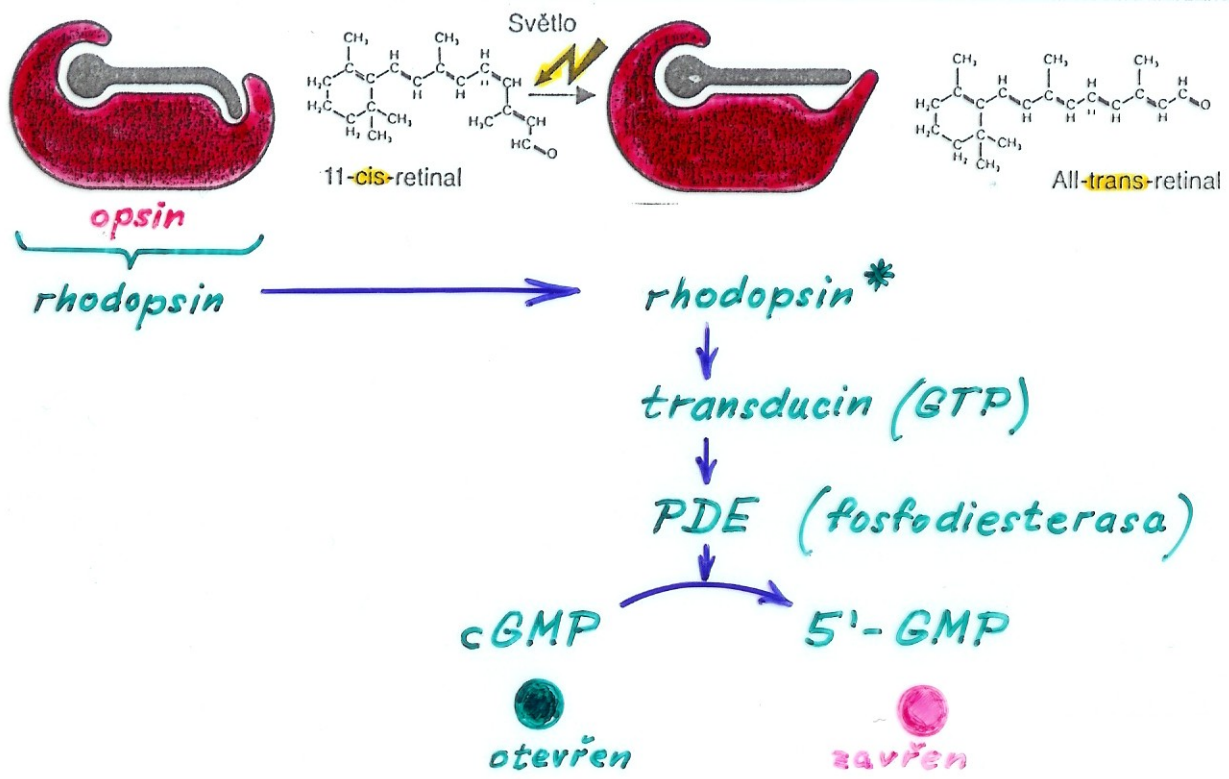
11-*cis*-retinal

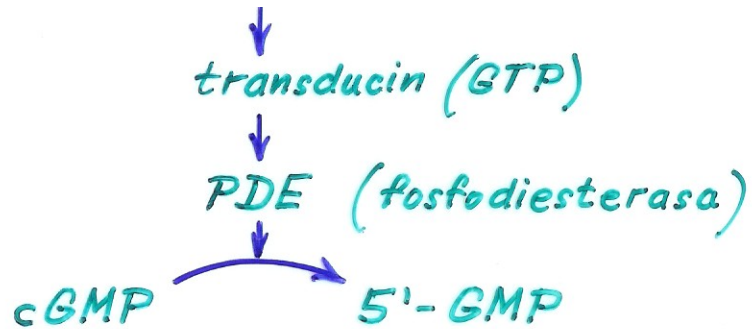


cis-retinal



trans-retinal

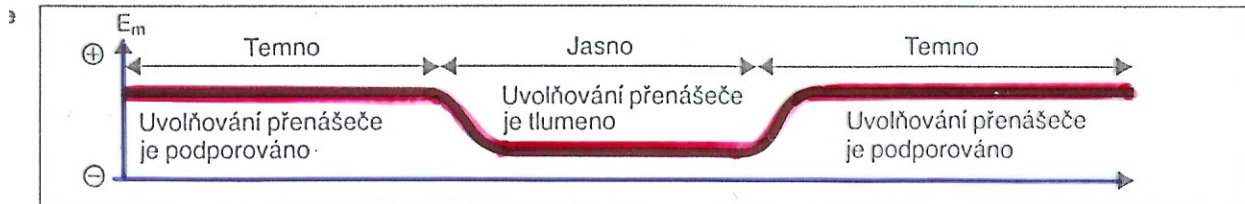
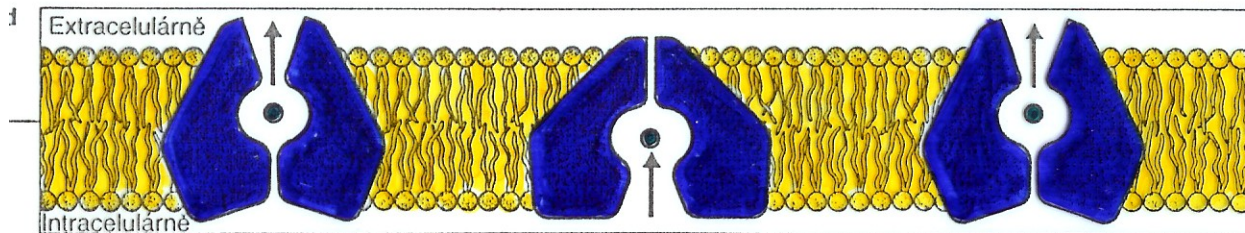


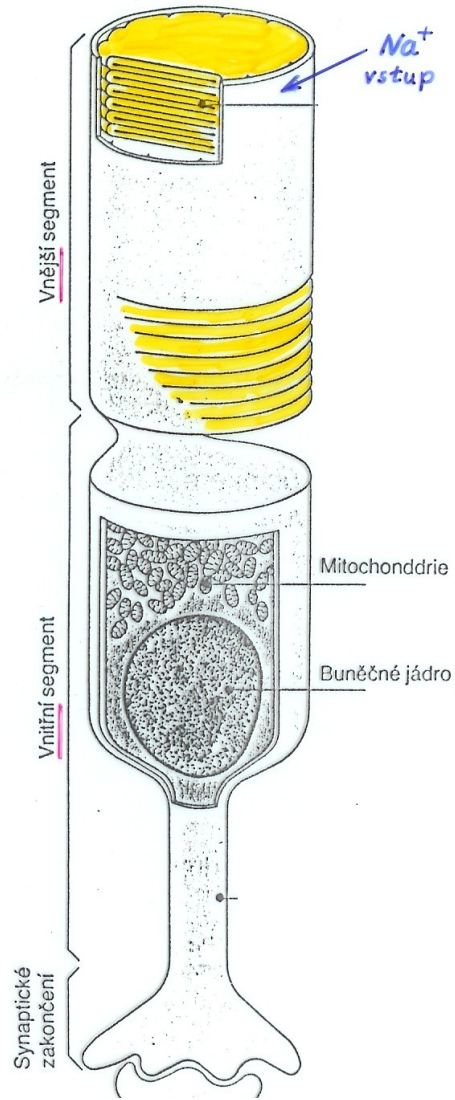


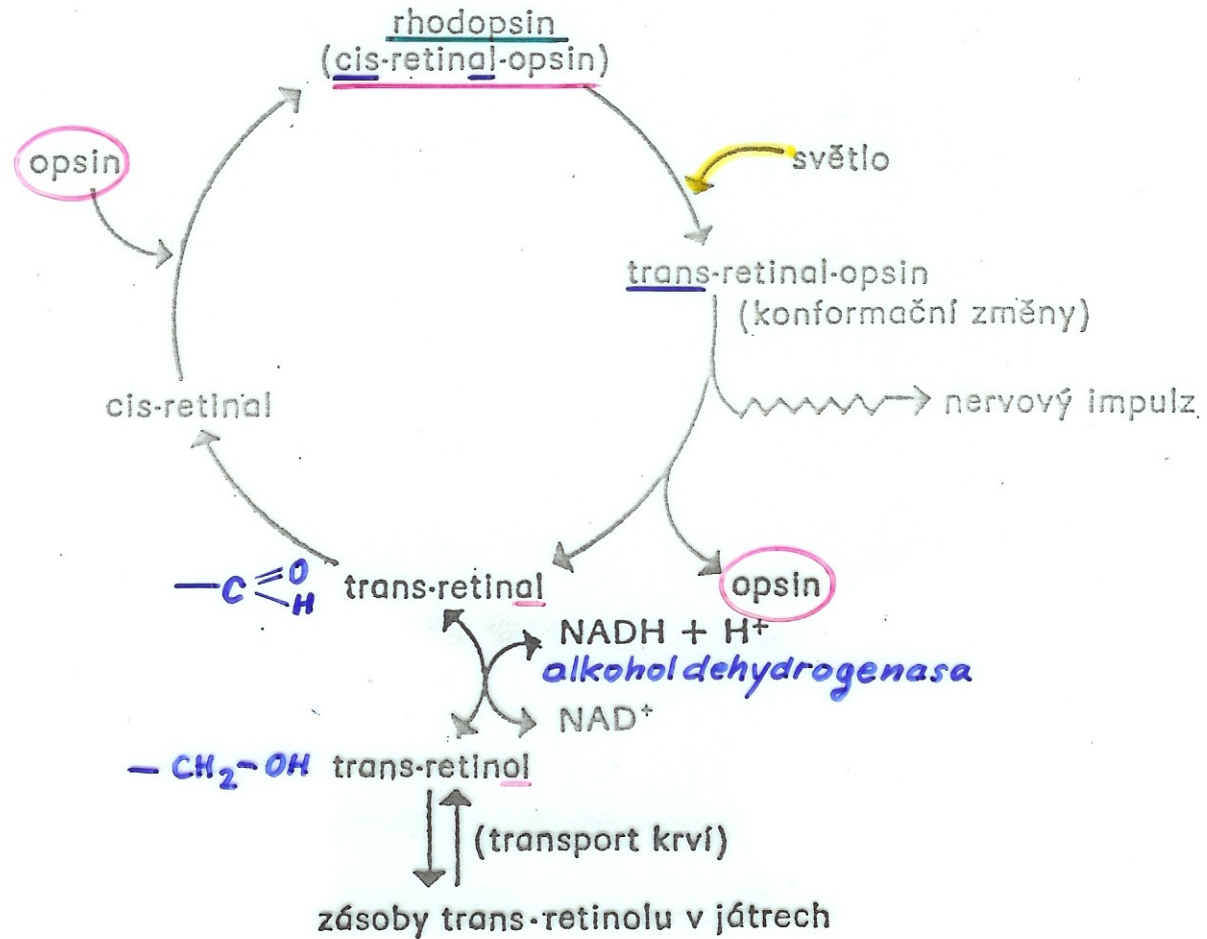
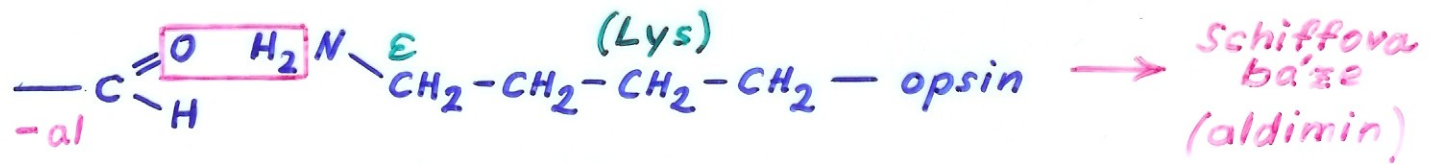
otevřen

zavřen

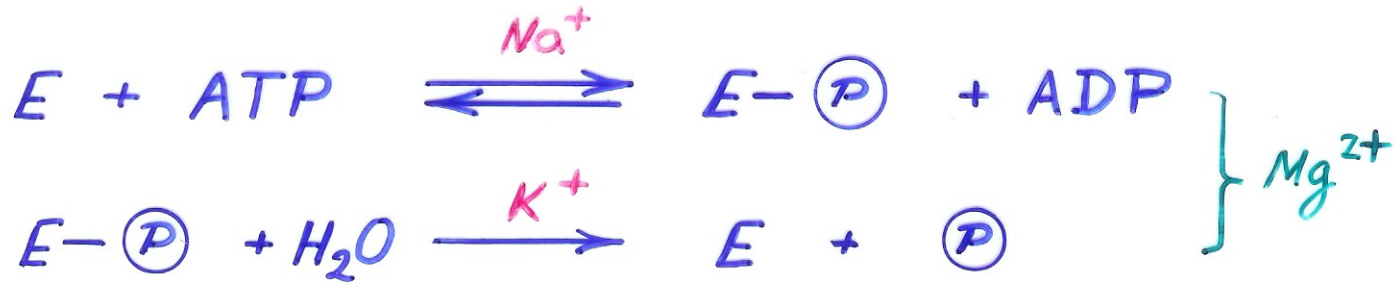
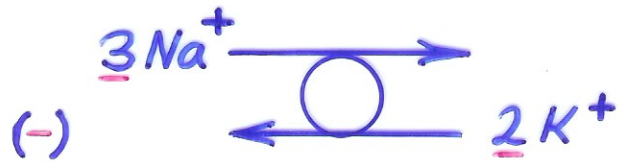
Na⁺ kanál
vnější segment
(vstup Na⁺)







Na⁺, K⁺ ATPase





transport nehydratorovaných iontů

