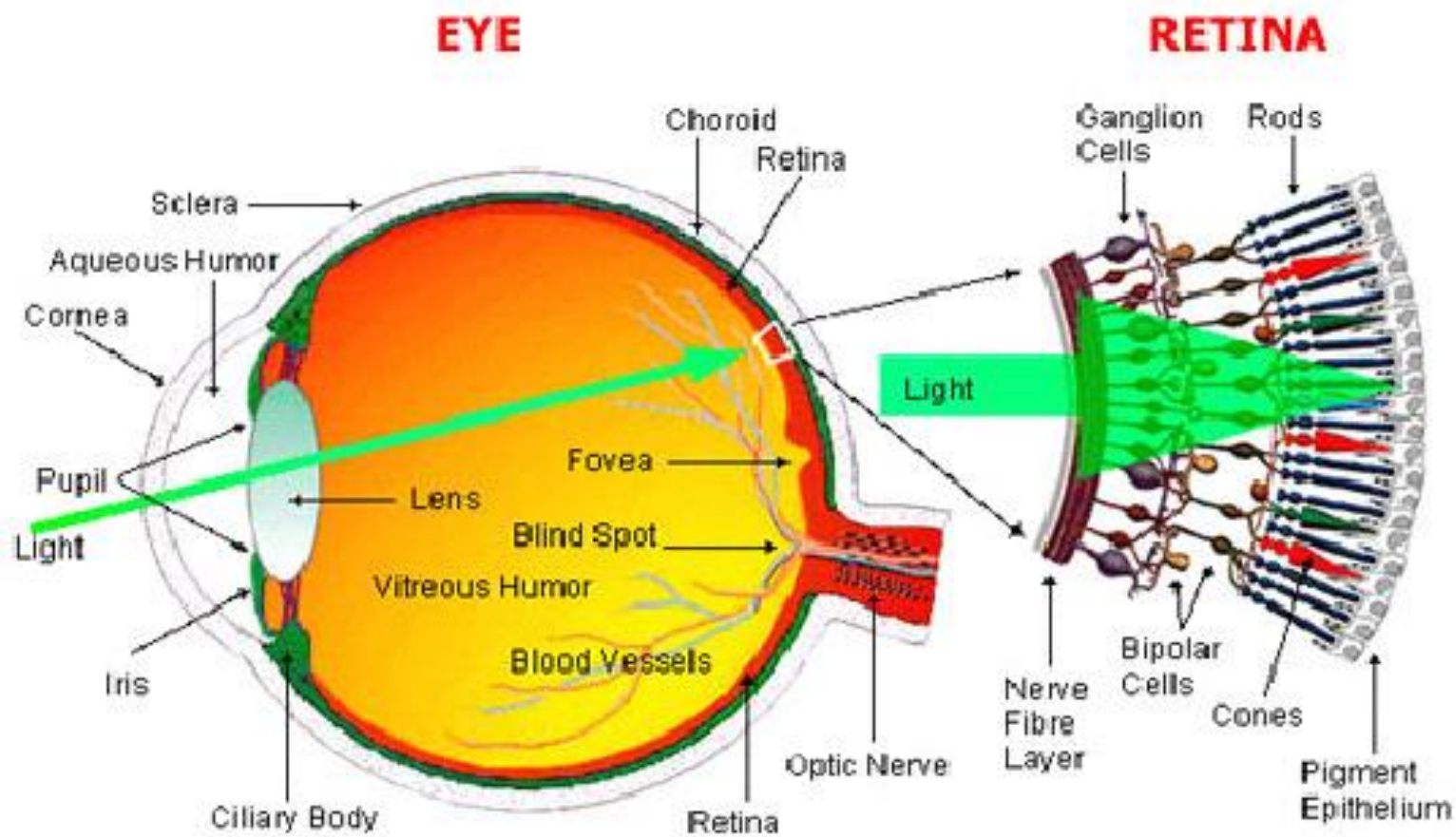


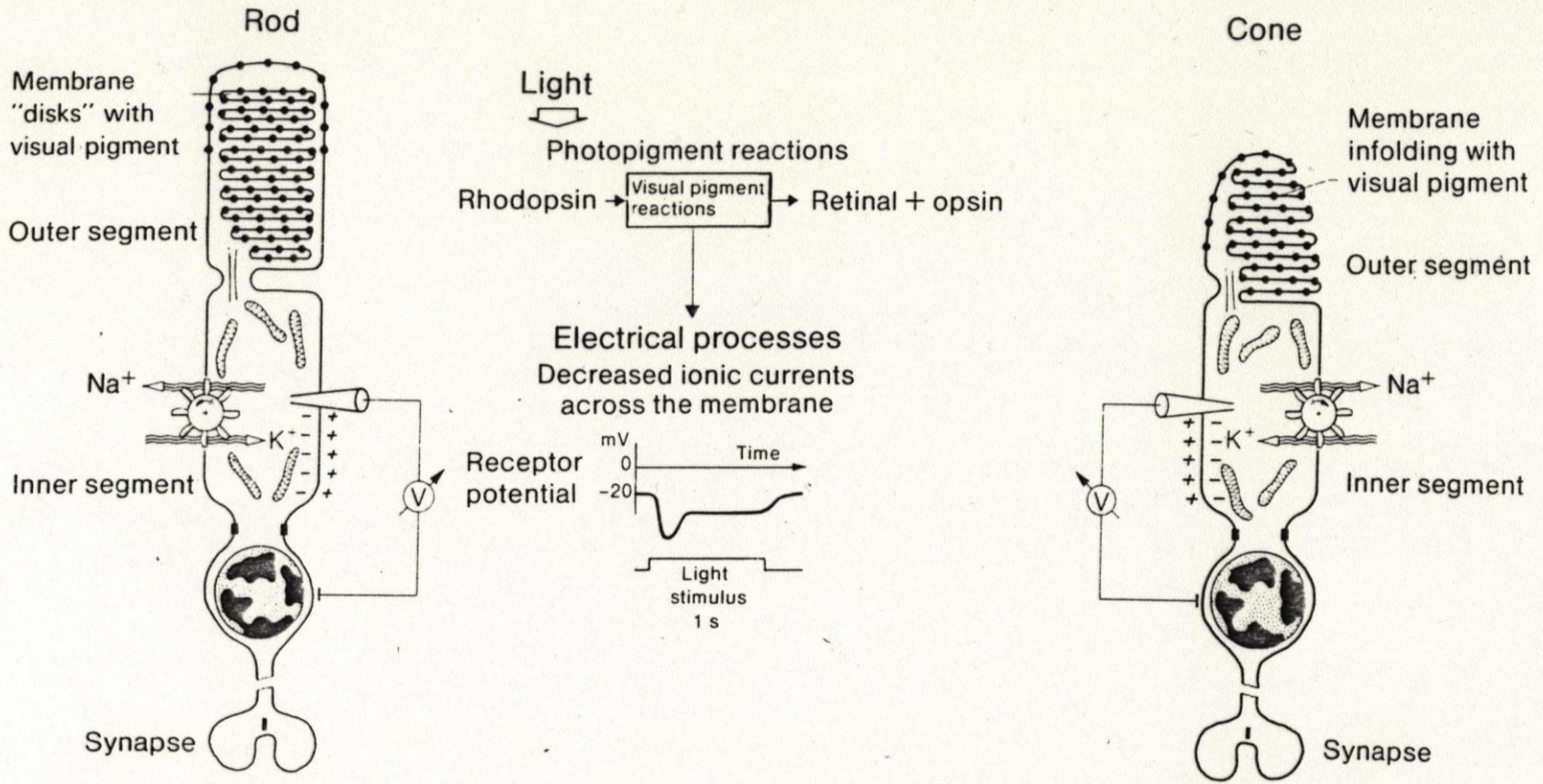
# Zrakové receptory, rodopsín

Július Cirák

# Zloženie ľudského oka

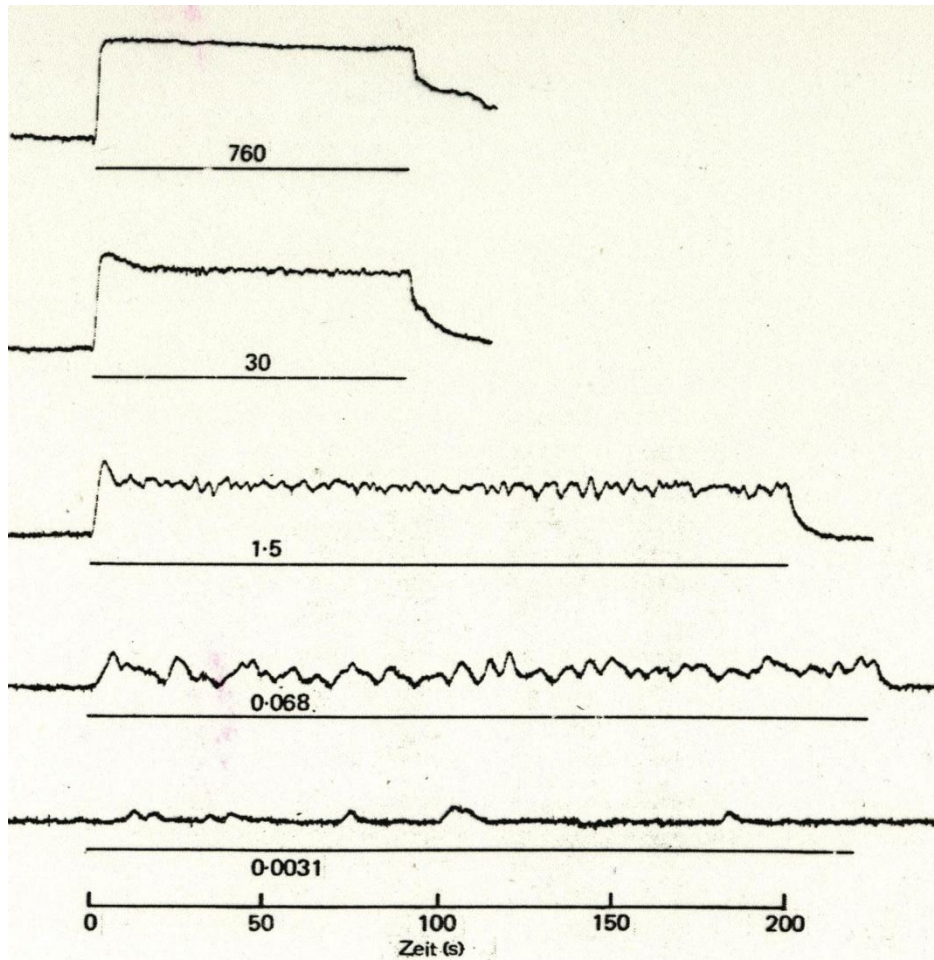


# Zloženie zrakových buniek, tyčinky a čapíky

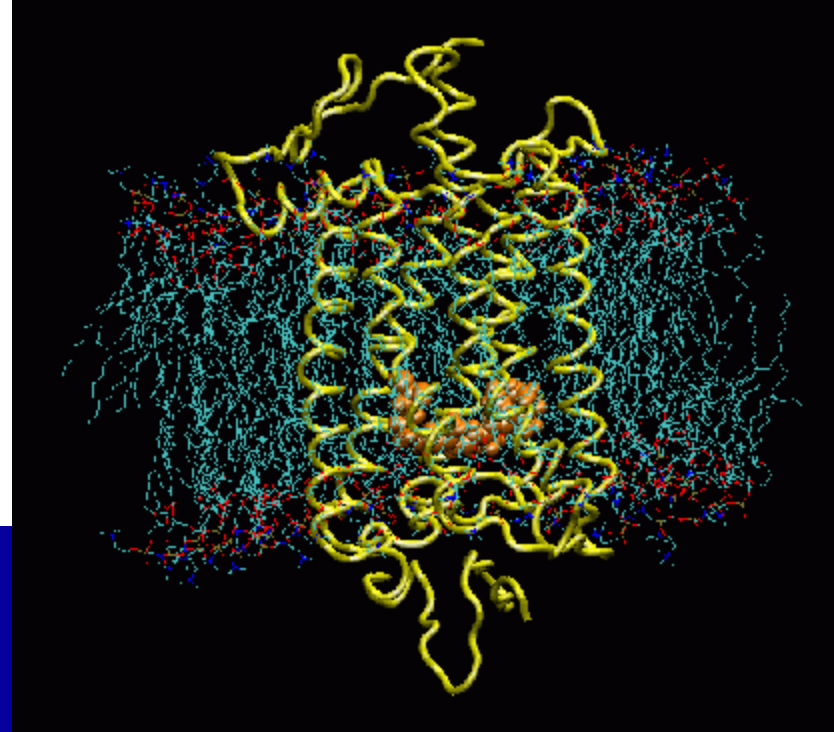




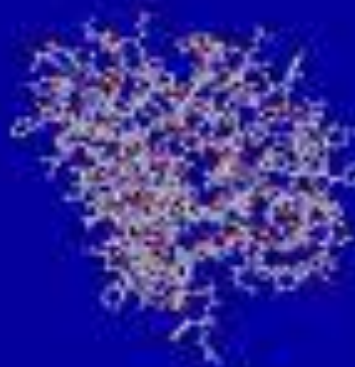
# Prúdová odozva na svetelné stimuly pri rôznej intenzite svetla



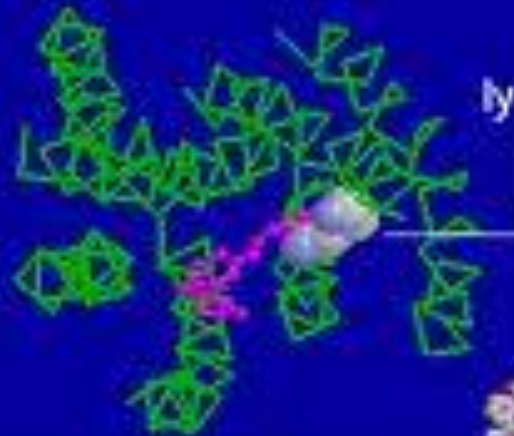
**Fig. 15.110.** Response of a vertebrate (toad) rod to light stimuli of varying intensity. Measured extracellularly with a suction electrode, into which the rod outer segment of the still intact cell is sucked. The ordinate gives the reduction of the membrane current from the dark current value. The lines under the curves give the duration of the illumination, and the accompanying numbers give the intensity of the light signal in units of photons  $\mu\text{m}^{-2} \text{s}^{-1}$  at 500 nm. For very low intensities single "antibumps" are seen which overlap for higher intensities to form a smooth wave form. [From Baylor, D. A., Lamb, T. D., and Yau, K. W., *J. Physiol.* **288**, 613-634 (1979)]



## Rhodopsin and Cis-Retinal

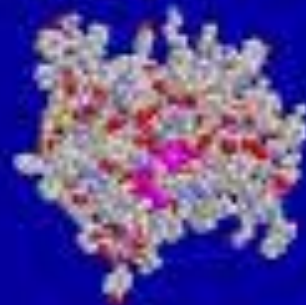


Opsin protein

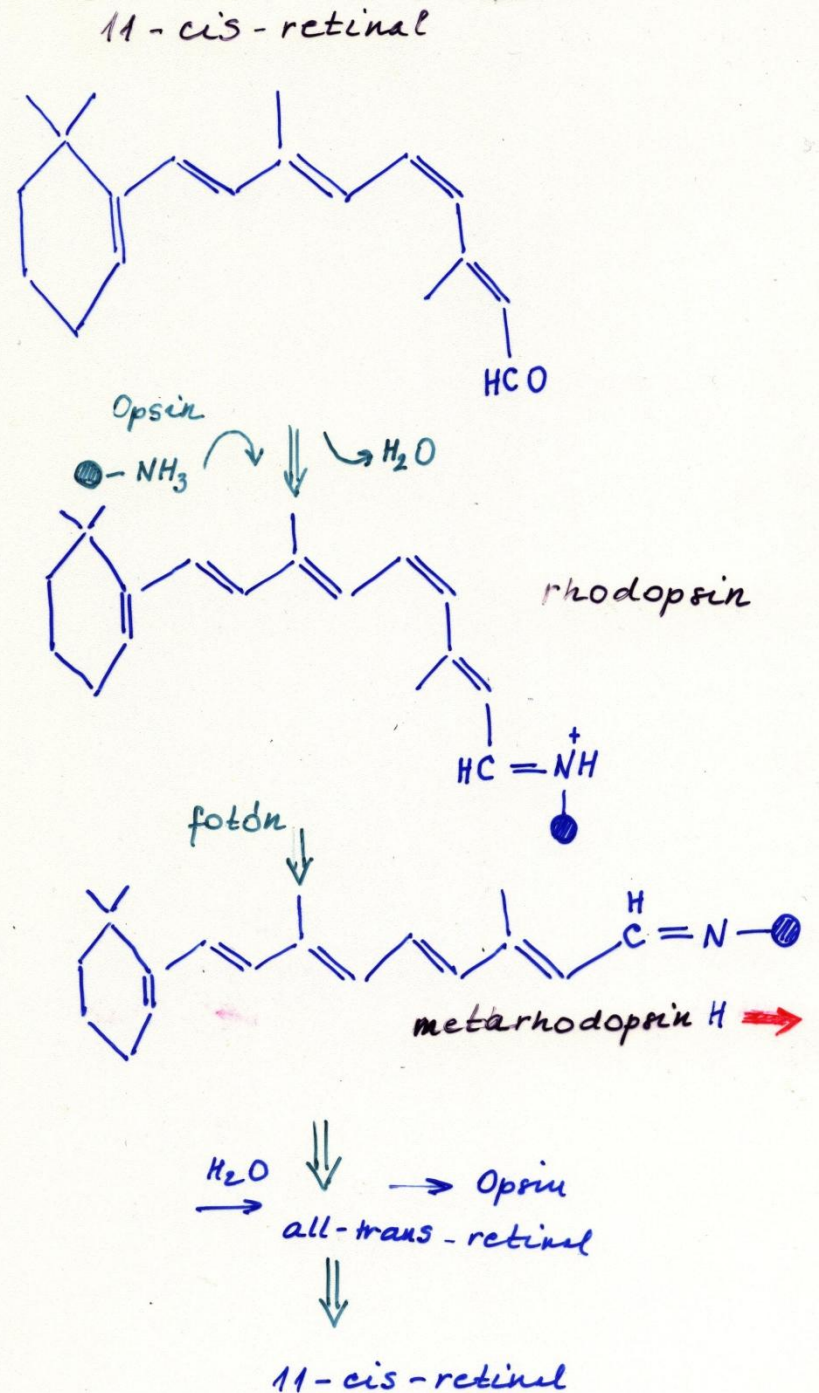


lysine

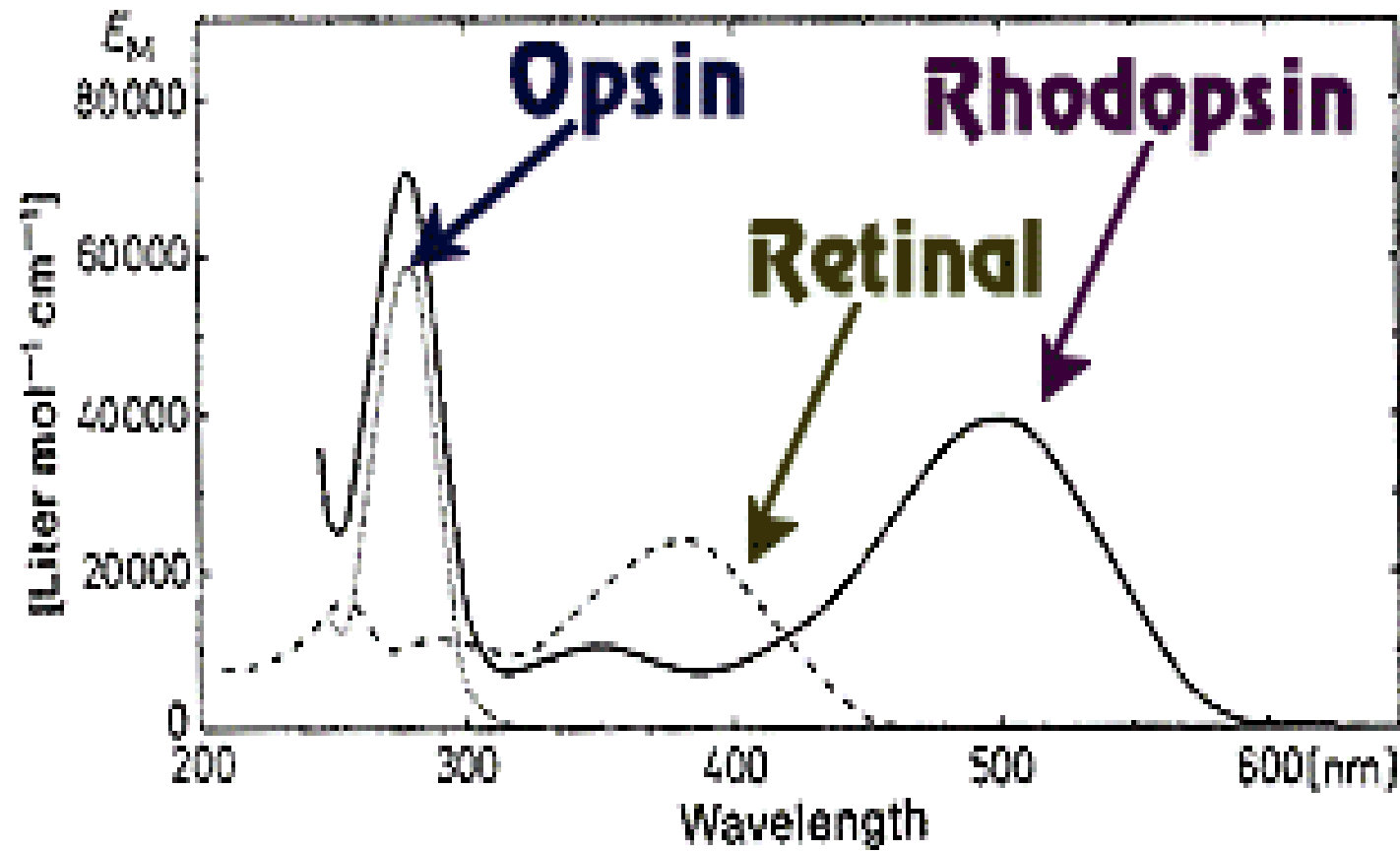
Opsin backbone (green)  
cis-retinal (magenta)



# Jednotlivé fázy v zmenách rodopsinu



# Absorpční spektrum molekuly rodopsínu





# Absorpční pásy zrakových pigmentů

