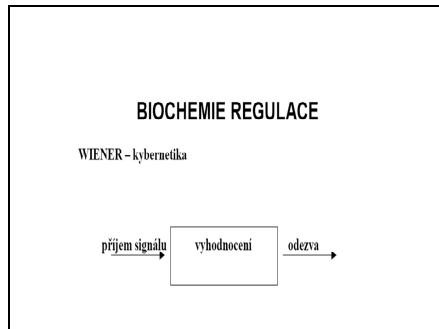
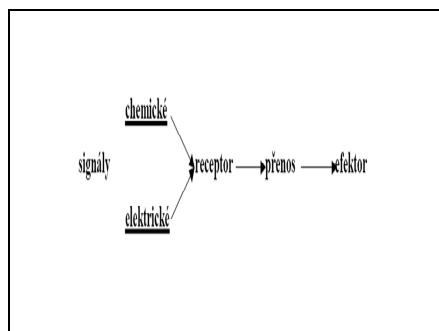


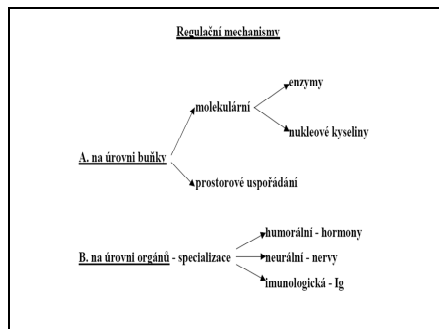
snímek 1



snímek 2



snímek 3



snímek 4

Regulace na enzymové úrovni – rychlá odezva

- Michaelisovskou kinetikou – hexokinasa Km 10^{-4} M
– glukokinasa Km 10 mM
- Inhibicí produktem

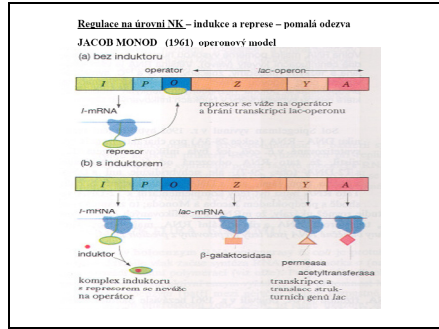
snímek 5

- Zpětnou vazbou – allosterie – negativní x pozitivní
- Řídící enzymy v cyklech – citrátový cyklus - ICDH
– glykolyza PFK
- Kovalentní modifikací – proteasy
– fosforylasy A B
– trombin

snímek 6

Regulace na úrovni NK – indukce a represe – pomalá odezva
JACOB MONOD (1961) operonový model

snímek 7



snímek 8

Prostorové uspořádání

- Kompartmentace - mitochondrie - β -oxidace, citrátový cyklus, respirace
- cytoplazma - glykolýza, syntéza mastných kyselin
- Transportní systémy - ATPasa
- karnitinový cyklus

snímek 9

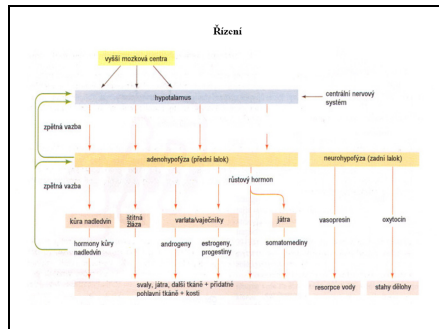
Humorální regulace

Endokrinní systém - žlázy s vnitřní sekrecí → hormony

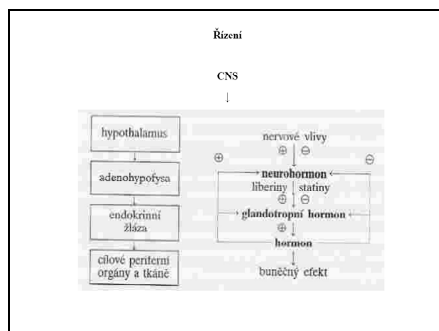
BAYLISS, STARLING (1904) - hormony

Chemické složení - NO, AMK, peptidy, bílkoviny, steroidy, karachidonová

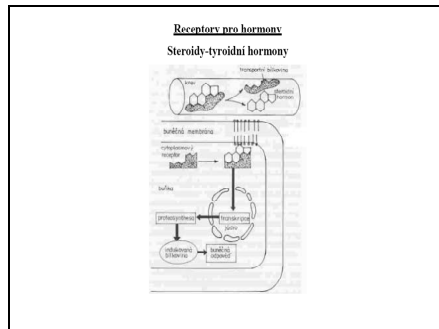
snímek 10



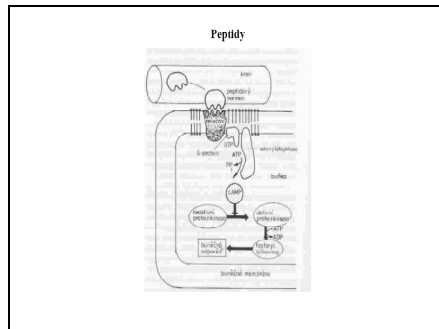
snímek 11



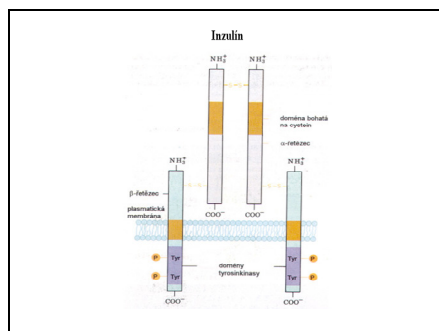
snímek 12



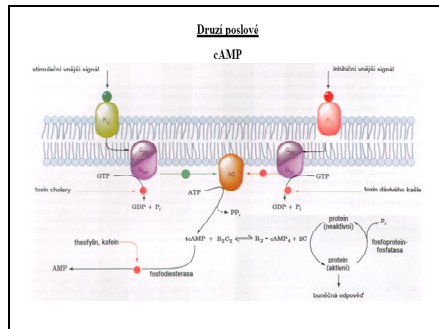
snímek 13



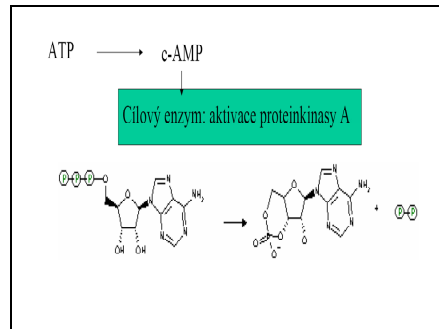
snímek 14



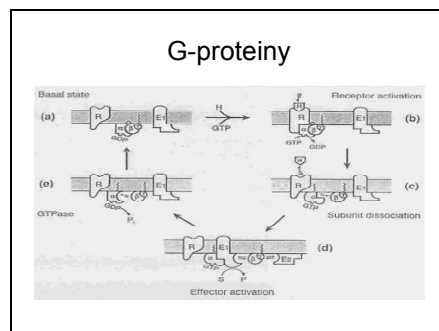
snímek 15



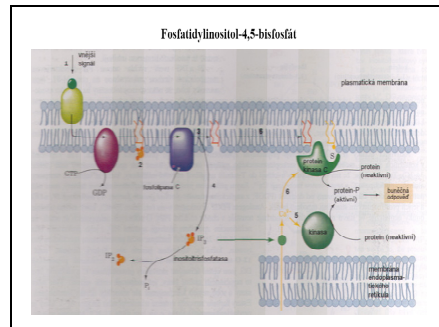
snímek 16



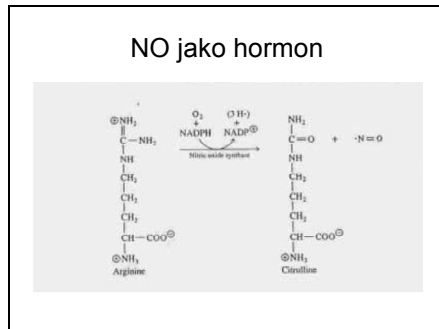
snímek 17



snímek 18



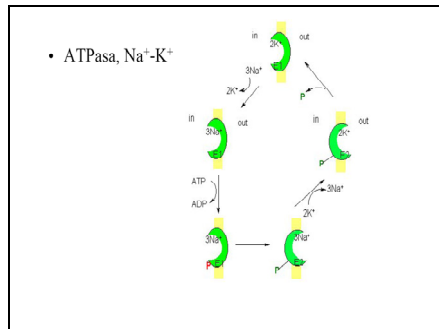
snímek 19



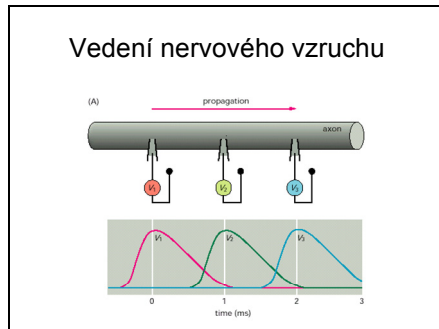
snímek 20

Nervový vzruch

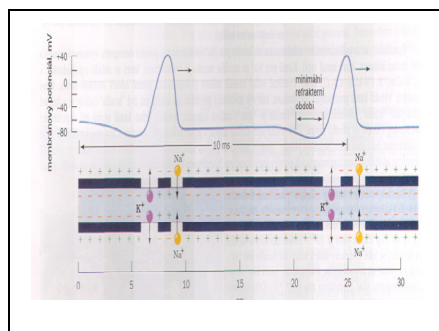
snímek 21



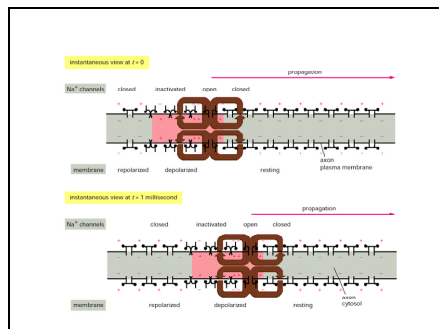
snímek 22



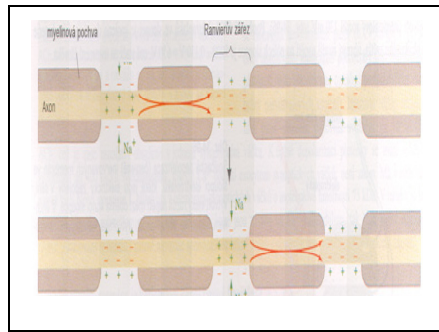
snímek 23



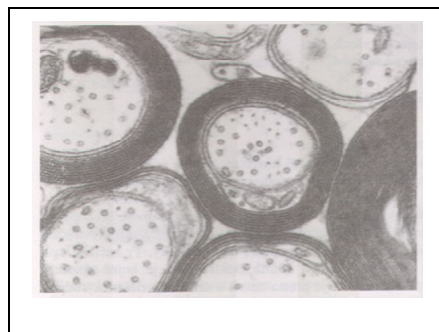
snímek 24



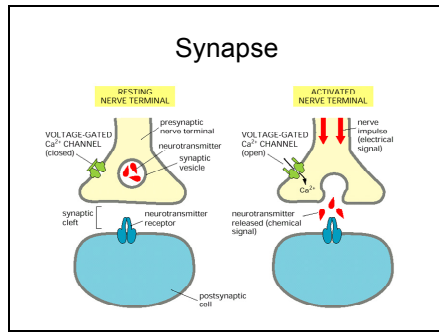
snímek 25



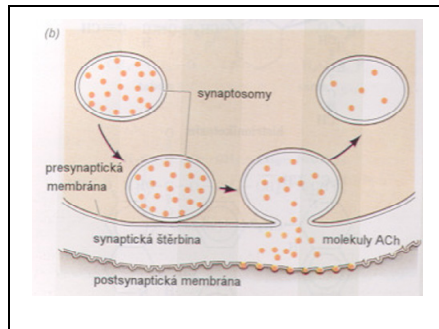
snímek 26



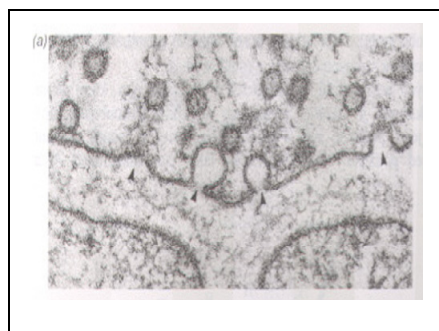
snímek 27



snímek 28



snímek 29



snímek 30

