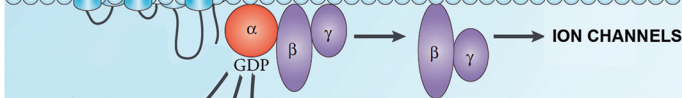
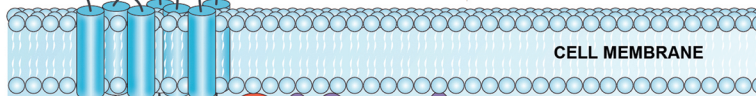


BIOGENIC AMINES:
norepinephrine,
serotonin,
dopamine

AMINO ACIDS:
glutamate
GABA

PEPTIDES:
GnRH, CRH, TSH etc.

OTHER: light, odorants.



Subtype

$G\alpha_s$
 $G\alpha_{sXL}$
 $G\alpha_{solf}$

$G\alpha_{11-13}$
 $G\alpha_o$, $G\alpha_t$
 $G\alpha_z$, $G\alpha_{gust}$

$G\alpha_q$, $G\alpha_{14}$
 $G\alpha_{11}$, $G\alpha_{15/16}$

Effector

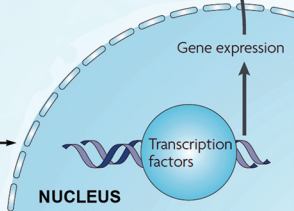
adenyl cyclase

adenyl cyclase

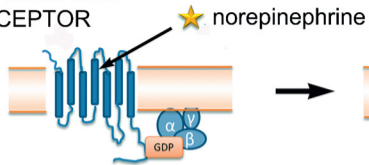
PLC
 Ca^{2+}

cAMP \uparrow

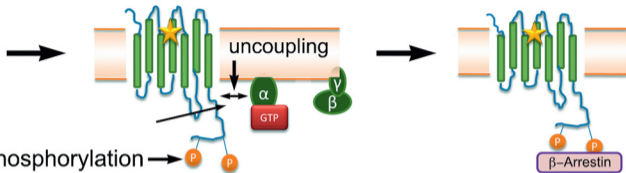
cAMP \downarrow



β -ADRENERGIC RECEPTOR



DESENSITIZATION



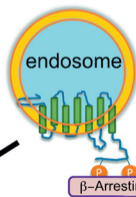
RECYCLING



recycling



INTERNALIZATION



DEGRADATION



