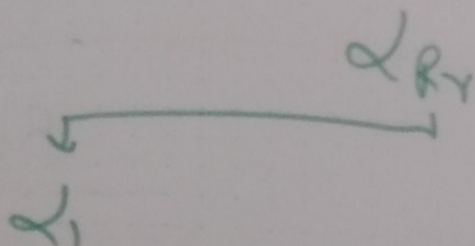
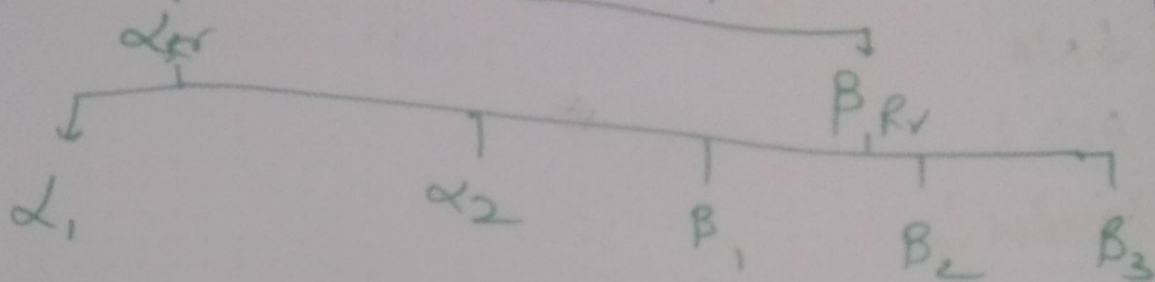


①

# Sympathetic Rr / Adrenergic Rr

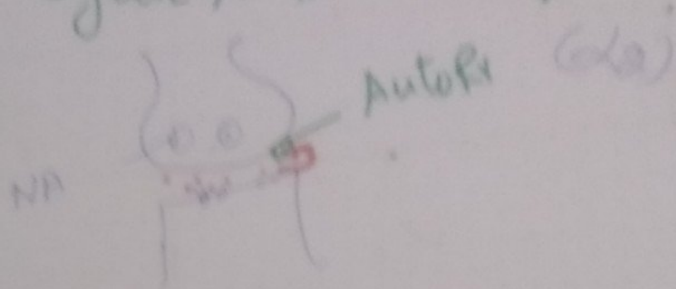


## IP<sub>3</sub> / DAG Pathway / Gq

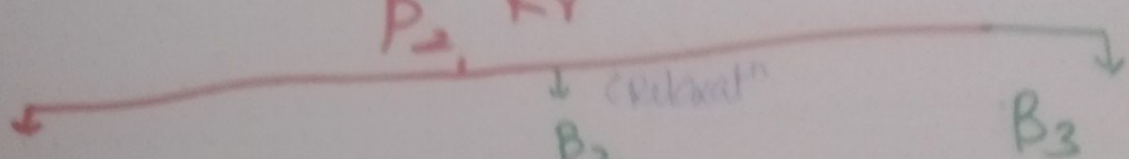
- 1 Heart - ↑ HR
- 2 Blood vessel - constriction → BP
- 3 eye - Mydriasis
- 4 Smooth Muscle - Contraction
- 5 Bladder - Trigone Muscle contraction  
→ Urine Retention
- 6 Liver - Glycogenolysis - ↑ BGL
- 7 Seminal duct → Ejaculation.

👉 → cyclic AMP pathway / Gi

↓ NA  
 Ach ↓  
 Insulin ↓



**β<sub>2</sub> Ry**



**β<sub>1</sub>**  
 CAMP (G<sub>s</sub>)  
 Heart - ↑ FOC  
 ↑ HR  
 ↑ CO

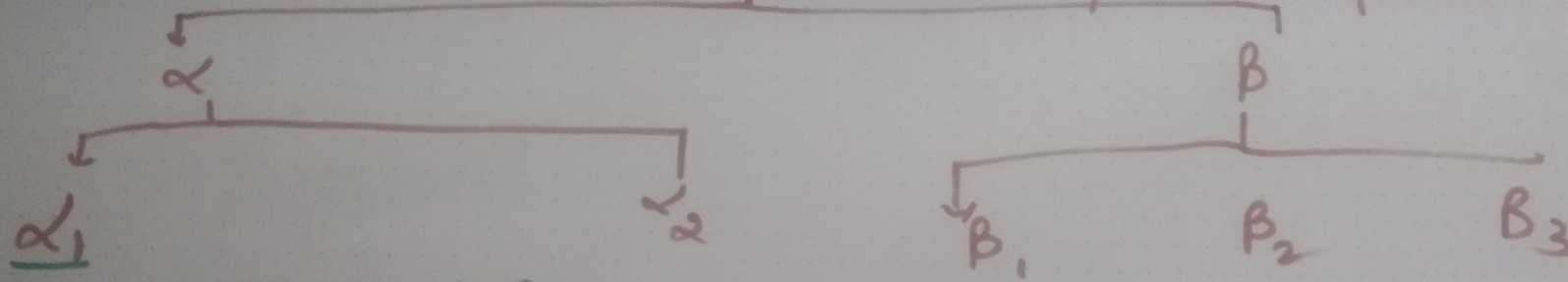
↓ (relaxat<sup>n</sup>)  
**β<sub>2</sub>**  
 CAMP (G<sub>i</sub>)  
 Smooth Muscle  
 Uterus - dil<sup>n</sup>  
 Bladder - dil<sup>n</sup>  
 GI - decontract<sup>n</sup> dil<sup>n</sup>

**β<sub>3</sub>**  
 CAMP (G<sub>s</sub>)  
 Adipose tissue  
 ↓  
 Lipolysis  
 ↓  
 ↑ FFA

JG cells - Renin Release  
 ↓  
 ↑ BP

Splenic muscle - Relaxat<sup>n</sup>

# Sympathetic R<sub>v</sub> / Adrenergic R<sub>v</sub>



## IP<sub>3</sub> / DAG Pathway / G<sub>q</sub>

- 1 Heart - ↑ HR, ↑ FOC, ↑ CO
- 2 **BVessel - ↑ BP**
- 3 **eye**