The actions of sympathetic and parasympathetic divisions on organs:

Effector Organ	Sympathetic Effects (receptor)	Parasympathetic Effects (receptor)
Eye (iris)	Contraction of dilator pupillae muscles - mydriasis(α_1)	Contraction of sphincter pupillae muscles – miosis(M)
Eye (ciliary muscle)	Relaxation(β2) for distant vision	Contraction(M) for accommodation of lens (near vision) and increase aqueous humor outflow into canal of Schlemm
Eye (ciliary body epithelium)	Increased aqueous humor production(β ₁)	
Heart	Increased heart rate, increased force of contraction and increased conduction rate (β_1, β_2)	Decreased heart and conduction rate(M), decreased atrial contractility(M)
Arterioles(skin,abdominal viscera, kidney)	Strong vasoconstriction(α ₁)	
Arterioles(skeletal muscle)	Weak vasoconstriction(α_1, β_2), vasodilation(M_3)	
Vessels(heart)	Vasoconstriction(α_1), Vasodilation(β_2)	Vasodilation (M on vascular endothelium), vasoconstriction (M on smooth muscle cells)
Lungs	Dilates Bronchioles(β ₂)	Constricts bronchioles(M)
Uterus, pregnant	Constriction(α_1), relaxation(β_2)	Contraction(M)
Gastrointestinal tract wall	Decreased tone($\alpha_1, \alpha_2, \beta_2$)	Increased tone(M)
Gastrointestinal tract sphincter	Contraction(α ₁)	Relaxation (M)
Gatrointestinal tract secretion		Increased(M)
Kidney	Increased renin release(β ₁)	
Bladder wall (detrusor muscle)	Relaxation(β ₂)	Contraction(M)
Internal urinary sphincter	Contraction(α ₁)	Relaxation (M)
Pancreas	Decreased insulin secretion(α_2), decreased exocrine secretion(α)	Increased insulin secretion(M), increased exocrine secretion(M)
Fat cells	Lipolysis(β ₃)	
Liver	Glycogenolysis (α_1,β_2) , Gluconeogenesis (α_1,β_2)	
Piloerector muscles of skin	Contraction(α ₁)	
Salivary gland	Constriction of vessels & small production of thick saliva (α_1)	Dilation of vessels & large production of thin saliva(M)
Sweat gland	Generalized sweating(M) Localized sweating(stress) – palms & soles(α ₁)	
Adrenal medullae	Increased secretion of EPI or NE (N)	