

PERIPHERAL NERVOUS SYSTEM

NERVES

Collection of **axons or dendrites** or both is called **nerve**.

CRANIAL/CEREBRAL NERVES

→ Originates from Brain

12 Pairs (24 Nerves)

Head, Neck, Facial

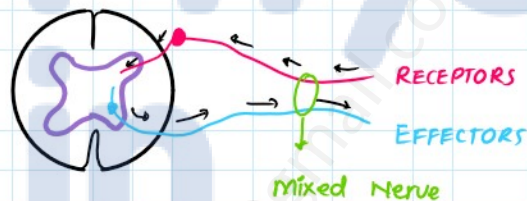
- **SENSORY NERVES** (I, II, VIII) (Receptor → CNS)
- **MOTOR NERVES** (III, IV, VI, XI, XII) (CNS → Effector)
- **MIXED NERVES** (V, VII, IX, X) (Two way communication)

SPINAL NERVES

→ Originates from spinal cord

31 Pairs (62 Nerves)

- **MIXED NERVES** (Two way)



SOMATIC N. SYSTEM

(Conscious Activities)

- Skin, skeletal muscles.

AUTONOMIC N. SYSTEM

(Involuntary Activities)

- **SYMPATHETIC**
- **PARASYMPATHETIC**

SYMPATHETIC N. SYSTEM

- **Emergency Functions**

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- Eyes (Pupil dilation)
- Salivary Glands (↓↓)
- Heart (72 x ↑↑)
- Lungs (Bronchi dilate)
- Peristalsis (↓↓)
- Gastric Juice (↓↓)
- Liver (Bile Juice) (↓↓)
- Bladder (Inhibit contraction)

PARA-SYMPATHETIC N. SYSTEM

- **Normal Functions**

- Eyes (Constriction)
- ↑↑ (Saliva)
- Normal (72 x per minute)
- Bronchi constricts
- Peristalsis (↑↑)
- Gastric Juice (↑↑)
- Bile Juice (↑↑)
- Bladder (contraction)

Sympathetic N-System

Solar plexus (Stomach)

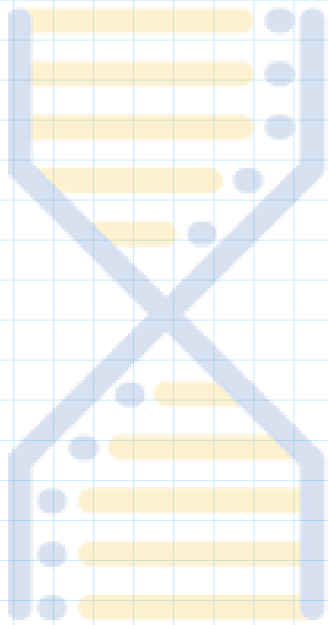
Parasympathetic

Thoracic Region
Near Spinal cord
↓↓
↑↑

ORIGIN
POSITION OF GANGLION
PRE-GANGLIONIC FIBER
POST-GANGLIONIC FIBER

Sacral Region + vagus Nerve
Near Effectors
↑↑
↓↓

near Spinal cord	POSITION OF GANGLION	near Effectors
↓↓	PRE-GANGLIONIC FIBER	↑↑
↑↑	POST-GANGLIONIC FIBER	↓↓
• Fear, Flight, Fight		Rest conditions



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