

# NERVOUS SYSTEM APP

MODULE 5

## NERVOUS SYSTEM

→ **CENTRAL**  
- BRAIN  
- SPINAL CORD

→ **PERIPHERAL**  
- NERVES  
- GANGLIA

### FUNCTIONAL ORGANIZATION:

#### SENSORY INPUT

SOMATIC SENSORY  
VISCERAL SENSORY

#### MOTOR OUTPUT

SOMATIC MOTOR  
AUTONOMIC MOTOR

#### SYMPATHIC NS

V.S. PARASYMPATHETIC

### QUESTIONS:

- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?  
- WHAT IS THAT DIVISION CALLED?
- WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)  
- WHAT IS THAT DIVISION CALLED?
- WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
- WHAT ARE THE PARTS OF A NEURON?
- WHAT IS AN ACTION POTENTIAL?  
- WHERE ARE THEY GENERATED?  
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
- WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?  
(BKA: MYELIN SHEATH INVOLVED IN SIGNALING)
- DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

**CNS** - BRAIN - "most complicated, mysterious, sensitive organs on Earth"

**PN.S** - SPINAL CORD  
- NERVES  
- GANGLIA

→ (to the side) → anything with "nerves"  
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

- PROPRICEPTION
- SENSATION

→ going "IN" THE CNS

"LEAVING" CNS

→ going to EFFECTORS

"BODY" → SOMATIC MOTOR

- SKELETAL MUSCLE

- VOLUNTARILY CONTROLLED

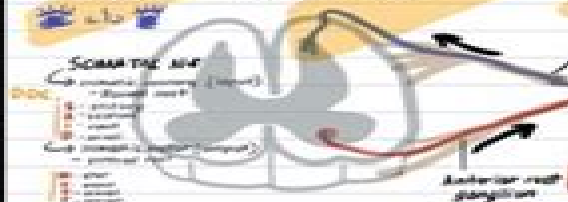
AUTONOMIC MOTOR

→ INNATE OF (LIFE) FUNCTIONS (e.g., heart, lungs, breathing)

→ CARDIAC muscle, smooth muscle, glands.

**SOMATIC** - PROPRICEPTION  
- FINE MOTORS

**VISCERAL** - INTERNAL ORGANS AND BLOOD VESSELS



① ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,

- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH), TOWARDS THE SYNAPTIC END BULB.

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DENDRITES AND EFFERENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NEURONS. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE OTHER.

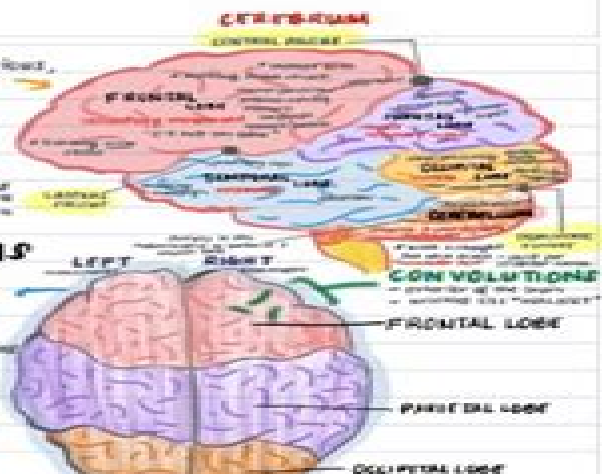
③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

→ RECEPTOR: DETECTS CHANGE IN ENVIRONMENT/INTERNAL SIGNALS.

→ CONTROL CENTER (AUTONOMIC NERVOUS SYSTEM): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.

→ EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.

(E.G. SHIVERING (SHOOTING UP BODY TEMPERATURE REGULATOR)

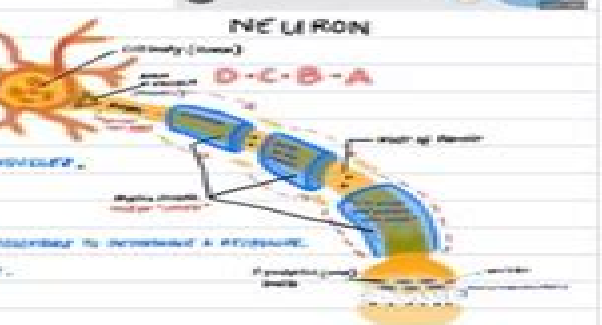


**CEREBRUM**  
- CONTROL CENTER  
- FRONTAL LOBE  
- PARIETAL LOBE  
- TEMPORAL LOBE  
- OCCIPITAL LOBE

**CONVOLUTIONS**  
- FOLDING OF THE SURFACE  
- INCREASES SURFACE AREA

**LONGITUDINAL FURROW**

**ANSWERS:**  
① SOMATIC NERVOUS SYSTEM  
② AUTONOMIC NERVOUS SYSTEM



### SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, DIVIDING DIFFERENT PARTS OF THE BODY INTO SENSORY AND MOTOR FUNCTIONS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

# Chapter 1 fundamentals Of The Nervous System And

**Stephen G. Waxman**



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**Molecular Neuropharmacology: A Foundation for Clinical Neuroscience, Third Edition** Eric J. Nestler, Steven E. Hyman, Robert C. Malenka, 2015-03-22 GAIN A COMPLETE UNDERSTANDING OF NERVOUS SYSTEM FUNCTION AND ITS RELATIONSHIP TO HUMAN NEUROLOGIC DISORDERS Molecular Neuropharmacology first reviews the fundamental biochemistry of the functioning nervous system and then describes how nerve cells communicate with one another through numerous types of neurotransmitters involving amino acids monoamines neuropeptides and neurotrophic factors among several others The neuropharmacology and neural circuits that underlie complex behaviors as well as major neural disorders are also discussed as are the drugs used to treat those conditions In the final section the authors use the concepts presented in the first two sections to explain how irregularities in the biochemistry of neuronal interactions can lead to a wide array of clinical manifestations FEATURES NEW chapter on neuroinflammation All chemical structure illustrations have been redrawn and improved Fully updated to reflect the latest breakthroughs and new drugs The most well written and easily understood work on the subject More than 300 full color

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