

NERVOUS SYSTEM A+P

MODULE 5

NERVOUS SYSTEM

STRUCTURAL ORGANIZATION

- 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:

1. WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
 - WHAT IS THAT DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
 - WHAT IS THAT DIVISION CALLED?
3. WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
4. WHAT ARE THE PARTS OF A NEURON?
5. WHAT IS AN ACTION POTENTIAL?
 - WHERE ARE THEY GENERATED?
 - WHERE DOES ACTION POTENTIAL GO FROM THERE?
6. WHY IS MYELIN IMPORTANT TO THE FUNCTION OF NEURONS? (BRIEFLY, HOW DOES IT IMPROVE MATTER?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT CARRY OUT COMMUNICATION AND COORDINATION WITHIN THE BODY. BASICALLY, DIVIDING DIFFERENT AREAS OF THE BODY INTO SOMATIC AND AUTONOMIC NS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

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

PNNS - SPINAL CORD

NERVES - meet up & all nervous fibers bundle up the CNS. In central nervous system, they are called nerves. In peripheral nervous system, they are called ganglia.

GANGLIA - (to the side) → anything with nerves

→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

→ PROPRICEPTION
→ SENSATION

"LEARNING" CNS

→ going to EFFECTORS

"BODY"

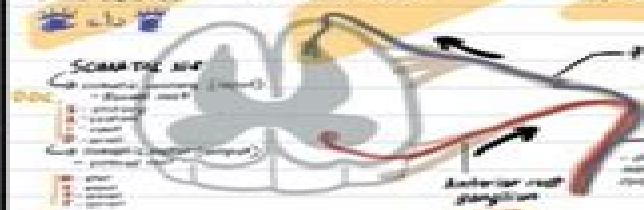
SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY CONTROLLED

AUTONOMIC MOTOR

→ DATA BASE OF (LIFE) (heart, lungs, etc.)
→ IN VISCERAL, breathing
→ Cardiac muscle, smooth muscle, glands.

SOMATIC NS
- PROPRICEPTION
- FINE MOVEMENT

VISCERAL NS
- INTERNAL ORGANS
- BLOOD VESSELS



① ACTION POTENTIALS ARE NERVE SIGNALS

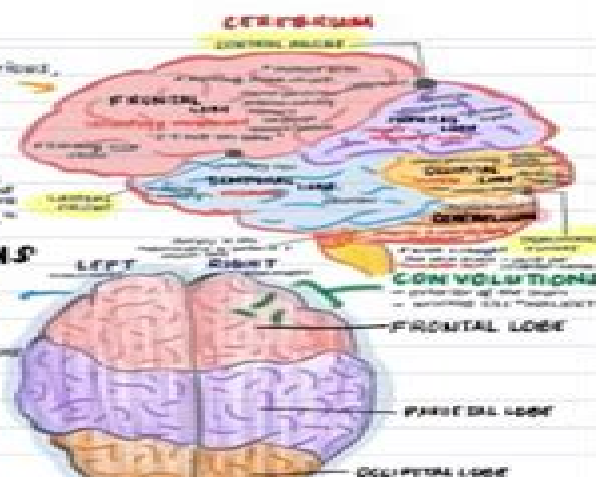
- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (speed up because of myelin sheath), TOWARDS THE SYNAPTIC END BULB.

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES).

ALONG AXONAL FIBERS, SOURCE AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NEURONS. IT FACILITATES RAPID COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE EFFECTORS.

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

- RECEPTOR: detects changes in (internal/external) environment.
- CONTROL CENTER (AUTONOMIC NS): receives information and sends out signals to the effector.
- EFFECTOR: produces a response to maintain body's internal balance.
- (i.e. sweating (cooling) as body temperature rises)



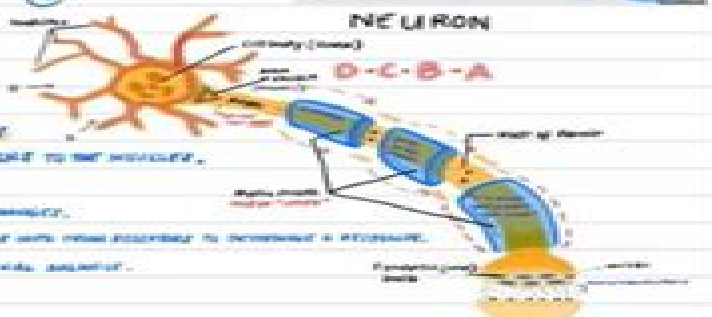
ANSWERS:

1. SOMATIC NERVOUS SYSTEM
2. AUTONOMIC NERVOUS SYSTEM
3. SYMPATHETIC = FIGHT OR FLIGHT
PARASYMPATHETIC = REST & DIGEST



NEURON

D-C-B-A



Biology Guide 49 Nervous System

Shayne Gilbert, Craig Bowden



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Readers' Guide to Periodical Literature Anna Lorraine Guthrie, 1915 An author subject index to selected general interest periodicals of reference value in libraries **Collected Papers** Osborn Zoological Laboratory, 1928 **Collected Papers - Osborn Zoological Society, Yale University** Osborn Zoological Laboratory, 1928 **Targeted Therapy for the Central Nervous System** Viral Patel, Mithun Singh Rajput, Jigna Samir Shah, Tejal Mehta, 2024-10-07 Targeted Therapy for the Central Nervous System Formulation Clinical Challenges and Regulatory Strategies presents research on various delivery methods of drugs to the central nervous system and brain This volume examines targeted therapies for neurodegenerative disorders and succinctly outlines the future of drug delivery systems highlighting significant advancements specifically relating to central nervous system delivery This book will be of great interest to researchers working in the field of neuroscience and pharmacology as well as clinicians pharmacists radiologists psychiatrists Provides a current thorough means on how drugs are delivered to the neurological system Figures a connection amongst the physiology of drug delivery pertaining to the central nervous system fundamentals of drug delivery and distribution principles Gives an accounting of clinical trials and regulatory approaches for the formulations targeting brain *The English Catalogue of Books Published from January, 1835, to January, 1863*, 1864 **Readers' Guide to Periodical Literature**, 1915

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