

NERVOUS SYSTEM ATP

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

SYMPATHETIC VS. PARASYMPATHETIC

CNS

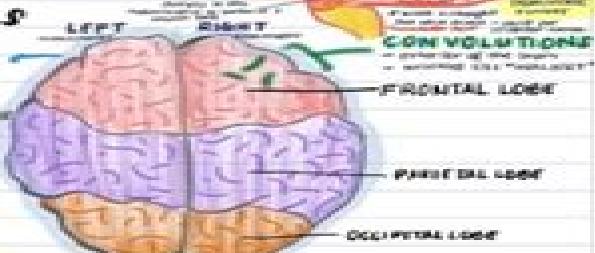
PNS

BRAIN - "most complicated, mysterious, ancient organ on Earth."

SPINAL CORD

NERVES
GANGLIA

- (to the side) → anything with nerves
- ALL NERVOUS TISSUE OUTSIDE OF CNS



Stage we are
"AWARE" of
↳ PROJECTION
↳ SENSATION
↳ going "IN" the CNS

"LEAVING" CNS

↳ going to EFFECTOR

"IN" /
SOMATIC MOTOR

- Somatic Nerve
- Motor Neuron
- VOLUNTARY MOVEMENT

AUTONOMIC MOTOR

- ↳ SAWTOOTH OF (can't know the exact output)
- ↳ SMOOTH MUSCLE, SMOOTH MUSCLE, GLAND.

- ① SOMATIC MOTOR SYSTEM
- ② AUTONOMIC MOTOR SYSTEM



③ SYMPATHETIC = FIGHT OR FLIGHT
PARASYMPATHETIC = REST & REPAIR



④ ACTION POTENTIAL AND NERVE SIGNALS

- GENERATED IN THE AXON MEMBRANE FROM NERVOUS
- THEY TRAVEL DOWN THE AXON (TOWARD DORSAL OR VENTRAL ROOTS), TOWARD THE SYNAPTIC END BODIES.

⑤ MYELIN IS AN INSULATING LAYER THAT INSULATES

PROTEIN PROTEIN PROTEIN, IT IS VITAL FOR THE VELOCITY CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONS FIBERS. ONCE AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NERVOUS, IT IS FACILITATED THROUGH CONDUCTION OF ACTION POTENTIAL FROM ONE CELL TO THE NEXT.

⑥ ACTION POTENTIALS ARE NOT FOR BODY REACTION!
→ REACTION = SENSE ORGAN OR SENSATION / INFORMATION FROM SENSATION

- CONTROL CENTER (AUTONOMIC DIVISION): REACTS & REACTS WITH INFORMATION TO DETERMINE A REACTION
- EFFECTORS REACT A REACTION. TO AUTONOMIC MOTOR SYSTEM, REACTS
(i.e. CONVENTION (reaction to body's environment stimulus))



QUESTIONS:

- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
- WHICH DIVISION OF YOUR N.S. IS NOT UNDER YOUR CONTROL? (AUTONOMIC)
- WHAT IS THAT DIVISION CALLED?
- WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC N.S.?
- 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 FUNCTIONALITY OF NERVOUS?
(i.e. the ones that move fast)
- DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE VISCERAL FEEDBACK LOOP.

SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NERVES THAT SUPPORT COMMUNICATION AND COORDINATION WITHIN THE BODY, ESPECIALLY, DIVIDING DIFFERENT AREAS OF THE BODY INTO SENSITIVE AND MOTORIC, WHILE IT PLAYS A PREDOMINANT ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Nervous System Note Taking Guide

Michael Rajnik

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