

# 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:

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 FUNCTIONING OF NEURONS?  
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
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 FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

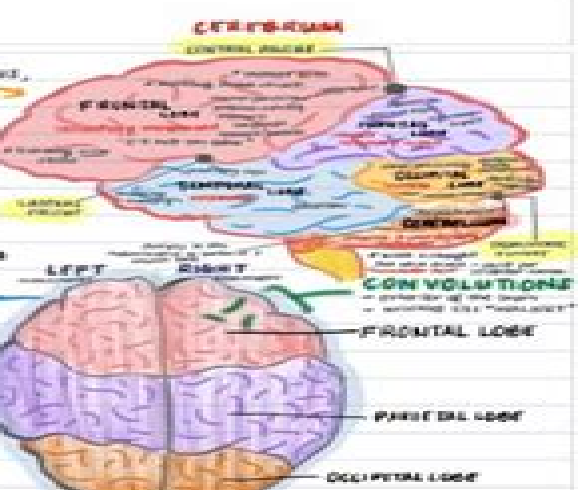
**CNS** - BRAIN - "most complicated, mysterious, sensitive organs on Earth"  
**PN.S** - SPINAL CORD  
- NERVES  
- GANGLIA  
→ (to the side) → anything with "nerves"  
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of  
→ PROPRICEPTION  
→ SENSATION  
→ going "IN" THE CNS  
**"LEAVING" CNS**  
→ going to EFFECTORS  
**"BODY"**  
- SOMATIC MOTOR  
- SKELETAL MUSCLE  
- VOLUNTARILY MOVABLE  
- AUTONOMIC MOTOR  
→ INNATE OF (LIFE) FUNCTIONS (e.g., HEART BEAT)  
→ BREATHING  
→ CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS



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. SOURCE AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NEURONS. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE NEXT.
3. NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!  
- > RECEPTOR: DETECTS CHANGES IN PHYSICAL/ENVIRONMENTAL CONDITIONS.  
- > CONTROL CENTER (AUTONOMIC NERVOUS SYSTEM): RECEIVES INFORMATION FROM RECEPTORS TO DETERMINE A RESPONSE.  
- > EFFECTORS: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.  
(E.G. SHIVERING (PRODUCING HEAT) IN RESPONSE TO COLD)



**CEREBRAL CORTEX**  
- HIGH ORDER THINKING  
- COGNITIVE FUNCTIONS  
- LONGITUDINAL FURROWS  
- CONVOLUTIONS  
- FOLDING OF THE SURFACE  
- INCREASES SURFACE AREA

1. SOMATIC NERVOUS SYSTEM
2. AUTONOMIC NERVOUS SYSTEM



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**Sandy Fritz**



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Andreatta, 2022-10-13 Neuroscience Fundamentals for Communication Sciences and Disorders Second Edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs CSD The text can also be used as an accessible go to reference for speech language pathology and audiology clinical professionals practicing in medical and rehab settings Written with an engaging and conversational style the author uses humor and analogies to explain concepts that are often challenging for students Complemented by more than 400 visually rich and beautifully drawn full color illustrations the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion With a comprehensive background in the principles processes and structures underlying the workings of the human nervous system students and practitioners alike will be able to better understand and apply brain behavior relationships to make appropriate clinical assessments and treatment decisions Extending well beyond traditional neuroanatomy based textbooks this resource is designed to satisfy three major goals Provide neuroanatomical and neurophysiological detail that meets the real world needs of the contemporary CSD student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation Provide clear understandable explanations and intuitive material that explains how and why neuroanatomical systems processes and mechanisms of the nervous system operate as they do during human behavior Provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence based literature related to behavior cognition emotion language and sensory perception areas that all directly impact treatment decisions New to the Second Edition 40 new full color illustrations Reorganization and division of content from Chapters 4 5 and 6 of the previous edition into six new and more digestible chapters A new standalone chapter on the cranial nerves Addition of a major section and discussion on the neural bases of swallowing Addition of more summary tables and process flowcharts to simplify the text and provide ready made study materials for students Revisions to most figures to improve their clarity and coherence with the written material Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book     **Nervous**

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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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