

NERVOUS SYSTEM A+P

MODULE 5

NERVOUS SYSTEM

STRUCTURAL ORGANISATION

- CENTRAL
 - BRAIN
 - SPINAL CORD

PERIPHERAL

- NERVES
- GANGLIA

FUNCTIONAL ORGANISATION

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 THIS DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THIS 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 IMPROVE MATTER?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

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

PNNS - SPINAL CORD

NERVES
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 VOLUNTARY, breathing
→ Cardiac muscle, smooth muscle, glands.



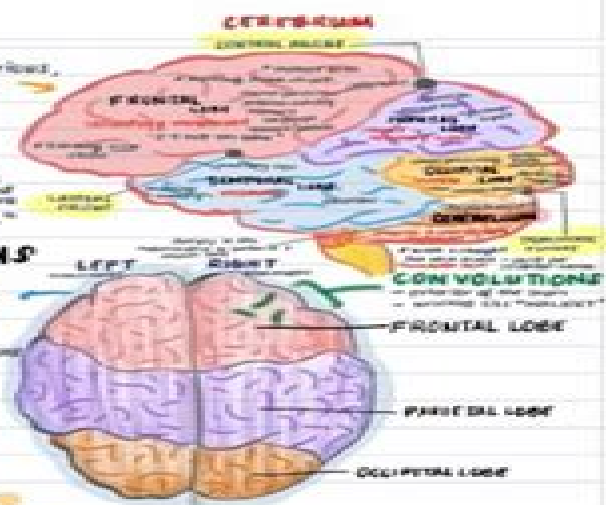
⑤ ACTION POTENTIALS ARE NERVE SIGNALS

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

⑥ 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 MUSCLES.

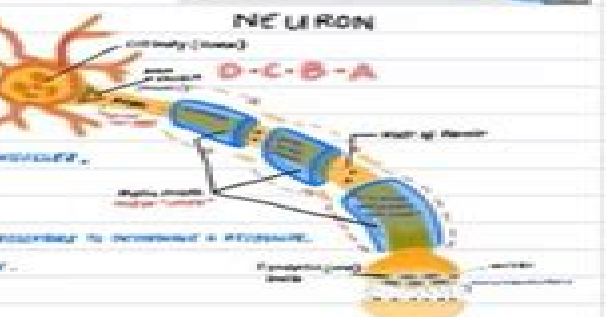
⑦ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

→ RECEPTOR: detects changes in (internal/external) environment/changes.
→ CONTROL CENTER (AUTONOMIC CNS): receives information and makes decisions to coordinate a response.
→ EFFECTOR: produces a response. To maintain body's internal balance.
(i.e. CONDUCTING (working as body) temperature regulator)



LONGITUDINAL FURROW

① SOMATIC NERVOUS SYSTEM
② AUTONOMIC NERVOUS SYSTEM



SUMMARY:

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

Biology Guide 49 Nervous System

David G. Myers, Richard O. Straub



Biology Guide 49 Nervous System:

Study Guide for Psychology David G. Myers, Richard O. Straub, 2009-04-03 Longtime Myers collaborator Richard Straub provides an updated study guide for the new edition

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Human Biology Shayne Gilbert, Craig Bowden, 2003 **Bio-Climatology for Built Environment** Masanori Shukuya, 2019-01-18 Indoor climate is determined by rational lighting heating cooling and ventilating systems For occupants well being it should be consistent with how regional outdoor climate works in the flow of radiation via four paths of heat transfer radiation convection conduction and evaporation This book starts with the relationship between the human body and its immediate environmental space followed by a brief introduction of passive and active systems for indoor climate conditioning The nature of light and heat is discussed with a focus on building envelope systems such as walls and windows and then examined from the viewpoint of thermodynamics and human biology Some examples are given to enable a better understanding of luminous and thermal characteristics of our most immediate environment particularly for those professionally involved in environmental planning designing and engineering to know about bio climatic design principle

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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web oct 4 2019 the joker is above all else a performer and hamill is clearly having a great time chewing the scenery or more accurately chewing his microphone 1 heath ledger the dark knight 2008

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web joker is a 2019 american psychological thriller supervillain film directed by todd phillips who also co wrote the screenplay with scott silver the film based on dc comics characters stars joaquin phoenix as joker

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web the joker is a supervillain appearing in american comic books published by dc comics the character was created by bill finger bob kane and jerry robinson and first appeared in the debut issue of the comic book batman on april 25 1940

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web the joker is a character portrayed by heath ledger and the main antagonist in christopher nolan s 2008 superhero film the dark knight based on the dc comics supervillain of the same name he is depicted as a psychopathic criminal mastermind with a warped sadistic sense of humor who defines himself by his conflict with the vigilante batman

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