

# NERVOUS SYSTEM APP

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. PARASYMPATHIC

### QUESTIONS:

- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
  - WHAT IS THIS DIVISION CALLED?
- WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
  - WHAT IS THIS DIVISION CALLED?
- WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHIC & PARASYMPATHIC 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 FUNCTION OF NEURONS? (BRIEFLY MENTION THE INVOLVED MOLECULE)
- DESCRIBE THE ROLES OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

### SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT EXPRESS COORDINATION 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"

**PNS** - SPINAL CORD

**NERVES GANGLIA** - meet up & all messages travel through before they get to the target organs, and receive responses from the CNS by reflexes

→ (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" OF SOMATIC MOTOR - SKELETAL MUSCLE - VOLUNTARILY MOVABLE

AUTONOMIC MOTOR - LONGITUDINAL MUSCLE - INVOLUNTARILY MOVABLE

- BIRTH RATE OF (Cells) have to stay about the same
- HEART RATE, BREATHING
- Cardiac muscle, smooth muscle, glands.



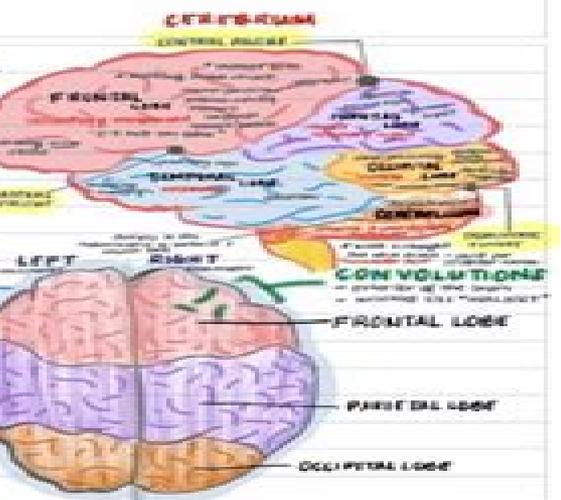
ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (AND UP BACK IF NECESSARY), TOWARDS THE SYNAPTIC END BULB.

MYELIN IS AN INSULATING LAYER THAT SURROUNDS PROTECTIONS FOR THE AXON, IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONS FIBERS. SWIFT AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.

NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

- RECEPTOR: detects change in stimulus/ environmental changes.
- CONTROL CENTER (AUTONOMIC NS): receives information from the receptor to determine a response.
- EFFECTOR: produces a response to maintain body's internal balance. (i.e. sweating (cooling) as body's temperature regulator)



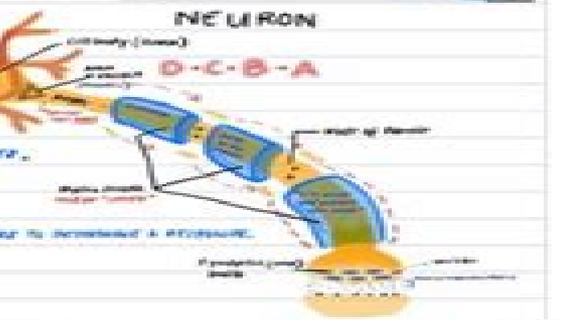
CONVOLUTIONS - increasing the surface area of the cerebrum - increasing the "real estate"

CEREBRAL CORTEX - thin outer covering - cognitive functions

LONGITUDINAL FURROW - separates the two hemispheres

ANSWER:

1. SOMATIC NERVOUS SYSTEM
2. AUTONOMIC NERVOUS SYSTEM



# Anatomy Physiology Chapter 7 Notes Nervous System

**Puja Mehta**



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web oct 12 2023 requirements diploma holders or with at least 3 years of retail supervisory experience pleasant disposition and customer service oriented good working attitude and strong interpersonal skills a team player who is independent and able to work under pressure required to work retail hours weekends and public holidays

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web store layouts and plan o grams hr best practice merchandising techniques and retail operations point of sale policies and procedures policies and procedures qa audit word and excel desired experience for assistant retail manager includes employee relations experience participation in labor relations training and or hr experience preferred

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web aug 31 2023 a retail assistant manager is responsible for performing managerial tasks in support of the head manager or filling in for them when they re absent the daily duties of a retail assistant manager may vary depending on the type of product the store sells the number of employees they work with and the size of their store

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web jul 21 2023 the primary duty of retail assistants is to provide excellent customer service part of their daily duties and responsibilities include welcoming customers into the shop assisting customers to find desired items advising customers on new products and encouraging them to buy them

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web sep 27 2023 the following are more duties and responsibilities that a retail assistant manager should be able to fulfill assist the store manager in realizing or exceeding determined sales plans and target metric objectives ensure consistent execution of company s marketing and visual presentation set up

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web jul 14 2023 the first step in creating a successful assistant retail manager resume objective is to identify the skills and experience that make you a good fit for the position think about what makes you stand out from other applicants and include those qualifications in your objective statement

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web 1 experienced manager of restaurant and retail staff seeks assistant position at abc company to utilize strong leadership skills and comfort working in fast paced environments 2 seeking to obtain an assistant manager position with abc company which will provide challenge valuable supervisory experience and opportunity for career advancement

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web updated september 19 2023 retail assistant managers are sales professionals who oversee the daily operations of stores and support the needs of the manager their job description often also includes tasks like assisting with hiring and training ensuring the store meets its sales goals and helping customers

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web the objective statement of an assistant store manager resume should tell the hiring manager that you possess the skills and knowledge to excel in the position this includes highlighting any relevant experience including instructing staff on new practices training new personnel preparing budgets enforcing security rules creating pricing

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web nov 15 2023 reporting to the regional manager store manager the candidate has to show the following characteristics results focused you must have a strong sales focus and proven results in the following areas good store presentation and visual merchandising skills experience in rosters and labour wage control good inventory management

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web retail assistant manager responsibilities hire and train new employees supervise sales clerks to ensure that customers are helped work with the manager to create advertisements for products keep track of inventory motivate staff during busy shifts listen to customers complaints and assist them when needed

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in this chapter the fundamentals of nuclear radioactivity and the nucleus are explored the following two chapters explore the more important applications of nuclear physics in the field of medicine we will also explore the basics of what we know about quarks and other substructures smaller than nuclei

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nuclear physics is the branch of physics that studies atomic nuclei and their constituents and interactions examples of nuclear interactions or nuclear reactions include radioactive decay nuclear fusion and fission in this article let us study nuclear physics nuclear physics theory nuclear force and radioactivity in detail

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physics concept development atomic nucleus and radioactivity 5 5 precisely accurately and thoroughly the very essence and all the fundamental details of the theory and that is a remarkable achievement i have greatly enjoyed reading these books and learned so many new things from them this series of books will remain a permanent source of

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of

radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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concepts essentials of nuclear physics table of isotopes fundamental nuclear models liquid drop shell model concept of radioactive decay radioactive decay modes  $\alpha$   $\beta$   $\gamma$  and internal conversion and fission excited states in nuclei electromagnetic transitions angular correlations and polarisation

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discusses the discovery of the atom and its parts the development of nuclear fission in laboratories and how nuclear fission can be and has been used for symmetries in atomic nuclei alejandro frank 2008 12 18 symmetries in atomic nuclei aims to present an overview of recent applications of symmetry to the description of atomic nuclei

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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feb 20 2022 in this chapter the fundamentals of nuclear radioactivity and the nucleus are explored the following two chapters explore the more important applications of nuclear physics in the field of medicine

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nuclear physics is the field of physics that studies atomic nuclei and their constituents and interactions in addition to the study of other forms of nuclear matter nuclear physics should not be confused with atomic physics which studies the atom as a whole including its electrons

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sep 27 2023 nuclear physics is the study of the protons and neutrons at the centre of an atom and the interactions that hold them together in a space just a few femtometres 10 15

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oct 14 2023 properties of nuclear force the overall effect of nuclear forces is attractive nuclear forces are non electrical there is no gravitational force between the nuclear particles nuclear forces are powerful nuclear forces act within a very short range multiples of 10 15 m nuclear forces are charge independent

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10 10 m where Å is an ångström according to anders jonas ångström the term

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web entdecken sie die welt der musicals und erfahren sie wie ein casting abläuft welche regelungen es für kinderdarsteller gibt wie ein bühnenbild gebaut wird wie die maske abläuft oder woher die imposanten kostüme der shows kommen außerdem können sie erfahren wie unsere darsteller zu musicaldarstellern wurden welche unserer musicals

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