

AP Psychology Study Guide

Unit 1:1 Neuroanatomy & Neural Transmission

Name:

Class:

Date:

Overview

- **Neuroanatomy:** The study of the structure and function of the nervous system.
- **Neurotransmission:** The study of the chemical messengers that carry signals from one neuron to the next.

Structure of a Neuron

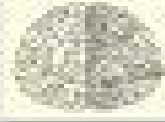


Part	Function
Dendrites	Branch-like structures that receive signals from other neurons and pass them to the cell body.
Cell Body (Soma)	Contains the nucleus and organelles; the control center of the neuron.
Axon	Long projection from the cell body that carries signals away from the neuron.
Axon Hillock	Region where the axon joins the cell body; the site of signal integration.
Myelin Sheath	Insulating layer that speeds up the transmission of signals along the axon.
Neurotransmitters	Chemical messengers that carry signals across the synapse to the next neuron.
Synapse	The gap between two neurons where signals are passed.

Key Principles

- **All-or-None Principle:** A neuron either fires or it doesn't fire.
- **Integration:** The process of combining signals from different sources to decide whether to fire.
- **Neurochemical Process:** The process of creating and releasing neurotransmitters.
- **Reuptake:** The process of reabsorbing neurotransmitters after they have been released.

How a Neuron Fires



- Resting Potential:**
 - Neuron has a negative charge (resting potential).
 - If stimulated, positive charges (ions) enter the cell.
- Depolarization:**
 - If enough positive charges enter, the neuron fires.
- Repolarization:**
 - Positive charges leave the cell, returning it to its resting state.
- Action Potential:**
 - The brief electrical change that travels down the axon.
 - Once started, it travels the entire length of the axon.
- Neurotransmission:**
 - At the end of the axon, chemicals (neurotransmitters) are released into the synapse.
- Reuptake:**
 - Some neurotransmitters are reabsorbed by the neuron.

Chemical Messengers

Neurotransmitter	Location	Effect	Receptor
Acetylcholine	Motor neurons	Excitatory	Cholinergic
Dopamine	Brain	Excitatory/Inhibitory	Dopaminergic
Glutamate	Brain	Excitatory	Glutamatergic
GABA	Brain	Inhibitory	GABAergic
Histamine	Brain	Excitatory	Histaminergic
Norepinephrine	Brain	Excitatory	Adrenergic
Serotonin	Brain	Excitatory/Inhibitory	Serotonergic
Synaptic Inhibitors	Brain	Inhibitory	Inhibitory

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The biological basis of behavior, including the structure and function of the brain and nervous system.

Nature vs. Nurture



Genetic Predisposition



- **Genetics:** The study of how genes influence behavior.
- **Environment:** The study of how external factors influence behavior.
- **Interaction:** The study of how genetics and environment work together.

- **Genetic Predisposition:** The idea that certain genes make a person more likely to develop a certain behavior.
- **Environmental Influence:** The idea that certain environments make a person more likely to develop a certain behavior.

Basic Genetic Concepts



- **Genes:** The basic units of heredity.
- **Chromosomes:** Structures that carry genes.
- **Mendel's Laws:** The principles of inheritance.

Key Neurotransmitters and Their Functions

Neurotransmitter	Location	Effect	Receptor
Acetylcholine	Motor neurons	Excitatory	Cholinergic
Dopamine	Brain	Excitatory/Inhibitory	Dopaminergic
Glutamate	Brain	Excitatory	Glutamatergic
GABA	Brain	Inhibitory	GABAergic
Histamine	Brain	Excitatory	Histaminergic
Norepinephrine	Brain	Excitatory	Adrenergic
Serotonin	Brain	Excitatory/Inhibitory	Serotonergic
Synaptic Inhibitors	Brain	Inhibitory	Inhibitory

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The biological basis of behavior, including the structure and function of the brain and nervous system.

Types of Neurotransmitters



- **Excitatory Neurotransmitters:** These cause the postsynaptic neuron to fire.
- **Inhibitory Neurotransmitters:** These prevent the postsynaptic neuron from firing.

Excitatory Neurotransmitters

Inhibitory Neurotransmitters

Excitatory neurotransmitters cause the postsynaptic neuron to fire, leading to an action potential.

Inhibitory neurotransmitters prevent the postsynaptic neuron from firing, leading to a lack of action potential.

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Table of Contents Answers To Ap Psychology Study Guides Suyuanore

1. Understanding the eBook Answers To Ap Psychology Study Guides Suyuanore
 - The Rise of Digital Reading Answers To Ap Psychology Study Guides Suyuanore
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Ap Psychology Study Guides Suyuanore
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers To Ap Psychology Study Guides Suyuanore
 - User-Friendly Interface

4. Exploring eBook Recommendations from Answers To Ap Psychology Study Guides Suyuanore
 - Personalized Recommendations
 - Answers To Ap Psychology Study Guides Suyuanore User Reviews and Ratings
 - Answers To Ap Psychology Study Guides Suyuanore and Bestseller Lists
5. Accessing Answers To Ap Psychology Study Guides Suyuanore Free and Paid eBooks
 - Answers To Ap Psychology Study Guides Suyuanore Public Domain eBooks
 - Answers To Ap Psychology Study Guides Suyuanore eBook Subscription Services
 - Answers To Ap Psychology Study Guides Suyuanore Budget-Friendly Options
6. Navigating Answers To Ap Psychology Study Guides Suyuanore eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers To Ap Psychology Study Guides Suyuanore Compatibility with Devices
 - Answers To Ap Psychology Study Guides Suyuanore Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Ap Psychology Study Guides Suyuanore
 - Highlighting and Note-Taking Answers To Ap Psychology Study Guides Suyuanore
 - Interactive Elements Answers To Ap Psychology Study Guides Suyuanore
8. Staying Engaged with Answers To Ap Psychology Study Guides Suyuanore
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers To Ap Psychology Study Guides Suyuanore
9. Balancing eBooks and Physical Books Answers To Ap Psychology Study Guides Suyuanore
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Ap Psychology Study Guides Suyuanore
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers To Ap Psychology Study Guides Suyuanore
 - Setting Reading Goals Answers To Ap Psychology Study Guides Suyuanore
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Answers To Ap Psychology Study Guides Suyuanore
 - Fact-Checking eBook Content of Answers To Ap Psychology Study Guides Suyuanore
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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