

AP Psychology Study Guide

Unit 1:1 Neuroanatomy & Neural Transmission

Name: _____

Class: _____

Date: _____

Overview

- **Neuroanatomy:** The study of the structure and function of neurons and the nervous system.
- **Neurotransmission:** The study of the chemical messengers that carry signals between neurons.

Structure of a Neuron



Part	Function
Cell Body (Soma)	Contains the nucleus and organelles; the control center of the neuron.
Dendrites	Receive signals from other neurons and pass them to the cell body.
Axon	Transmits signals away from the cell body to other neurons or muscles.
Axon Hillock	The region where the axon meets the cell body; the site of action potential initiation.
Myelin Sheath	Insulates the axon to speed up the transmission of electrical signals.
Neurotransmitters	Chemical messengers that carry signals across the synapse to other neurons or muscles.
Synapse	The gap between two neurons where signals are passed.

Key Principles

- **All-or-None Principle:** A neuron fires all or nothing.
- **Integration:** The process of combining signals from multiple sources to decide if an action potential should be fired.
- **Neurotransmission:** The process of passing signals between neurons.
- **Myelination:** The process of covering the axon with a myelin sheath to speed up signal transmission.

How a Neuron Fires



- Resting Potential:**
 - Neuron is at a negative charge (around -70 mV).
 - Positive ions (Na⁺) are outside the cell.
 - Negative ions (K⁺) are inside the cell.
- Stimulus:**
 - When a stimulus reaches the neuron, it causes the membrane to become more permeable to Na⁺.
- Depolarization:**
 - Na⁺ ions rush into the neuron, making the interior more positive.
 - If the positive charge reaches a certain level, an action potential is triggered.
- Repolarization:**
 - Na⁺ channels close, and K⁺ channels open, making the interior more negative.
- Resting Potential:**
 - The neuron returns to its resting state.

Chemical Messengers

Neurotransmitter	Function	Location	Effect
Acetylcholine	Muscle contraction	Motor neurons	Excitatory
Dopamine	Movement, motivation	Basal ganglia	Excitatory
Serotonin	Mood, appetite	Raphe nucleus	Excitatory
Norepinephrine	Alertness, energy	Locus coeruleus	Excitatory
GABA	Inhibition	Interneurons	Inhibitory
Glutamate	Learning, memory	Excitatory neurons	Excitatory

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The biological underpinnings of behavior, including the structure and function of the nervous system and the role of neurotransmitters.

Nature vs. Nurture



- **Nature:** The genetic and biological factors that influence behavior.
- **Nurture:** The environmental factors that influence behavior, including learning and experience.

Genetic Predisposition



- **Genetic Predisposition:** The influence of genes on behavior, such as the risk of mental illness.
- **Environmental Influence:** The influence of the environment on behavior, such as the role of stress in mental health.

Basic Genetic Concepts



- **Genes:** The basic units of heredity, which are segments of DNA that code for specific proteins.
- **Alleles:** Different versions of a gene, which can result in different traits.
- **Chromosomes:** Structures made of DNA and proteins that carry genes.

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Types of Neurotransmitters



- **Excitatory Neurotransmitters:** These neurotransmitters increase the likelihood of an action potential being fired in the postsynaptic neuron.
- **Inhibitory Neurotransmitters:** These neurotransmitters decrease the likelihood of an action potential being fired in the postsynaptic neuron.

Excitatory Neurotransmitters

Neurotransmitter	Function
Acetylcholine	Muscle contraction
Glutamate	Learning, memory

Inhibitory Neurotransmitters

Neurotransmitter	Function
GABA	Inhibition
Serotonin	Mood, appetite

3 detailed study guides!

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