

AP Psychology Study Guide

Unit 1: Neuroscience & Mental Transference

Name: _____ Class: _____ Date: _____

Overview

- Neuroscience: The study of the structure and function of the nervous system.
- Neurotransmission: The process by which information is passed from one neuron to the next.

Structure of a Neuron

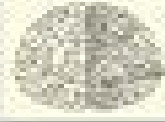


Part	Function
Dendrites	Receive information from other neurons and pass it to the cell body.
Cell Body (Soma)	Contains the nucleus and organelles; the control center of the neuron.
Axon	Transmits information away from the cell body to other neurons or muscles.
Myelin Sheath	Insulates the axon to speed up the transmission of electrical impulses.
Terminal Buttons	Release neurotransmitters into the synapse to communicate with other neurons.
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 by which a neuron decides whether to fire based on the sum of all incoming signals.
- Neurotransmission: The process by which a neuron communicates with another neuron.
- Neuroplasticity: The brain's ability to change and adapt to new information.

How a Neuron Fires



- Resting Potential:**
 - Neuron has a negative charge (resting potential).
 - Highly permeable to potassium ions.
 - Low permeability to sodium ions.
- Depolarization:**
 - When a stimulus is applied, sodium ions enter the neuron.
 - This causes the membrane potential to rise.
- Threshold:**
 - If the membrane potential reaches a certain level, an action potential is triggered.
- Action Potential:**
 - Once triggered, it travels down the axon.
 - It is a brief, self-propagating electrical impulse.
 - It is caused by the rapid opening of sodium channels.
- Repolarization:**
 - After the action potential, potassium ions exit the neuron.
 - This causes the membrane potential to drop.
- Refractory Period:**
 - The neuron cannot fire again immediately.

Neurotransmission



Neurotransmitter	Function	Location	Effect
Acetylcholine	Muscle contraction	Motor neurons	Excitatory
Dopamine	Movement, emotion	Basal ganglia	Excitatory
Glutamate	Learning, memory	Brain	Excitatory
GABA	Anxiety, stress	Brain	Inhibitory
Histamine	Alertness	Brain	Excitatory
Norepinephrine	Stress, alertness	Brain	Excitatory
Serotonin	Mood, appetite	Brain	Excitatory
Succinylcholine	Muscle relaxation	Motor neurons	Inhibitory

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The biological and psychological factors that influence behavior and mental processes.

Nature vs. Nurture



Genetic Predisposition



- Heritability:** The extent to which a trait is influenced by genetics.
- Environment:** The external factors that influence behavior.
- Interaction:** The way genetics and environment work together.

- Genetic Predisposition:** The tendency for a trait to be passed down from parents.
- Environmental Influence:** The way the environment shapes behavior.
- Gene-Environment Interaction:** The way genetics and environment interact.

Basic Genetic Concepts



- Chromosomes:** Structures that carry genetic information.
- Genes:** Units of heredity that code for specific traits.
- Alleles:** Different versions of a gene.
- Dominant:** The trait that is expressed.
- Recessive:** The trait that is masked.

Key Neuroscience and Mental Transference



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Types of Neurotransmitters



- Excitatory:** Increases the likelihood of an action potential.
- Inhibitory:** Decreases the likelihood of an action potential.
- Modulatory:** Affects the strength of other neurotransmitters.

Excitatory Neurotransmitters

Inhibitory Neurotransmitters

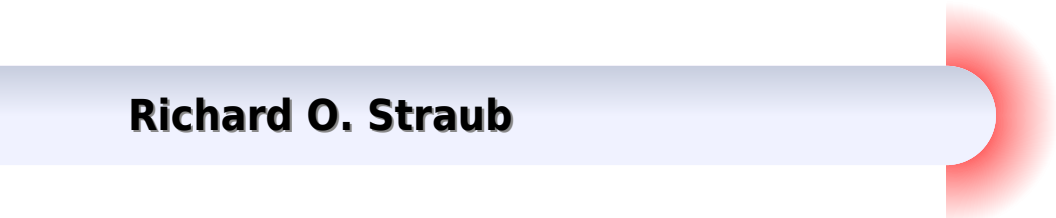
Acetylcholine, Glutamate, Norepinephrine, Serotonin, Histamine

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