

body that keep you alive.
Ex: heart beat, blood vessel
dilation/constriction, etc.

A. Sympathetic Division

- Turns your systems on. Prepares you for FFFF. (Increases activity of organs.)

B. Parasympathetic Division

- Turns systems down. Calms you after FFFF. (Decreases activity of organs.)

Neurons

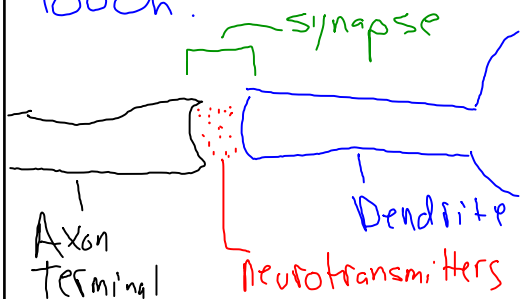
Specialized cells that
make up the nervous
system.

- You have as many as ¹⁵⁰ billion in your brain. Each one connects to thousands of others.
- Range in size from 2 microns to 3 feet.

All or None law

- Neurons will either fire or not fire. There is no partial discharge.

Neurons connect in a small space called the synapse. They don't actually touch.



Excitatory Messages

- When one neuron encourages the next neuron to fire.

Inhibitory Messages

- When one neuron tells the next neuron in line to stop firing.

After firing

Neurotransmitters are removed from synapse by a process known as:

1. Reuptake - Neurotransmitters are reabsorbed by the neuron.
2. Enzyme deactivation
3. Autoreceptors (a homeostatic device.)

Imbalances of neurotransmitters are responsible for/or associated w/ many mental illness such as...

- addiction
- depression
- bipolar disorder
- Schizophrenia and more.

The Endocrine System

A set of glands that secrete substances called hormones into your blood stream.

EX: hormones stimulate growth, and stimulate emotions and have a big impact on behavior.

Thyroid Gland

- Located in the neck.
Releases Thyroxin which controls your metabolism.

hypothyroidism

- Can be over weight. Can cause cretinism which results in mental retardation + stunted growth.

The majority of overweight people in America have NO problem w/ their thyroid.

Hyperthyroidism

+ Hypo - low
+ Hyper - high
↳ excitability, weight loss, inability to sleep.

Adrenal Glands

- Release adrenaline.
- Located above your kidneys.
↳ and noradrenaline.

Also...

Ovaries in women

↳ Estrogen and testosterone

Testicular gland in Men
testosterone and estrogen.

Test
next
time!

