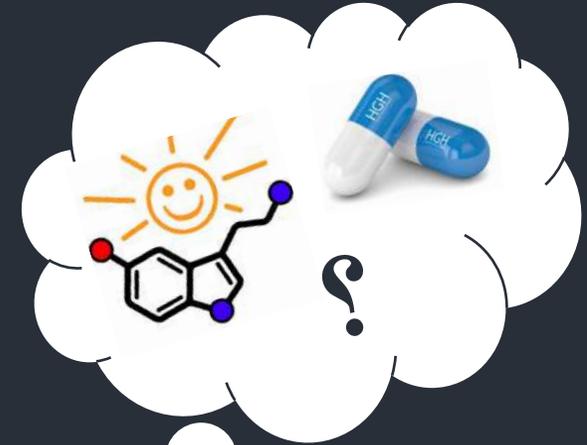


HORMONES



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ILOS

Define
HORMONES

List Important
HORMONES

List types Of
HORMONES

Mention Functions
Of **HORMONES**

Gland	Hormones	Functions
Thyroid	Thyroxine	Regulates metabolism and temperature
	calcitonin	Inhibits release of calcium from the bones
Parathyroid	Parathyroid hormone	Stimulates the release of calcium from the bones
Islet cells (in the pancreas)	Insulin	Decreases blood sugar
	Glucagon	Increases blood sugar
Testes	Testosterone	Regulate sperm cell production
ovaries	Estrogen	Stimulates egg maturation
	progesterone	Prepares the uterus to receive a fertilized egg

Types Of Hormones:



To regulate various functions, different types of hormones are produced in the body. They are classified as follows:

1. Peptide Hormones.

Peptide hormones are composed of amino acids and are soluble in water. Peptide hormones are unable to pass through the cell membrane as it contains a phospholipid bilayer that stops any fat-insoluble molecules from diffusing into the cell. Insulin is an important peptide hormone produced by the pancreas.

2. Steroid Hormones.



Unlike peptide hormones, steroid hormones are fat-soluble and are able to pass through a cell membrane. Sex hormones such as testosterone, estrogen and progesterone are examples of steroid hormones.



List Of Important Hormones:

1

Cortisol – It has been named as the “stress hormone” as it helps the body in responding to stress. This is done by increasing the heart rate, elevating blood sugar levels etc.

2

Progesterone

It is a female sex hormone also responsible for menstrual cycle, pregnancy and embryogenesis.

5

Melatonin

It primarily controls the circadian rhythm or sleep cycles.

3

Estrogen

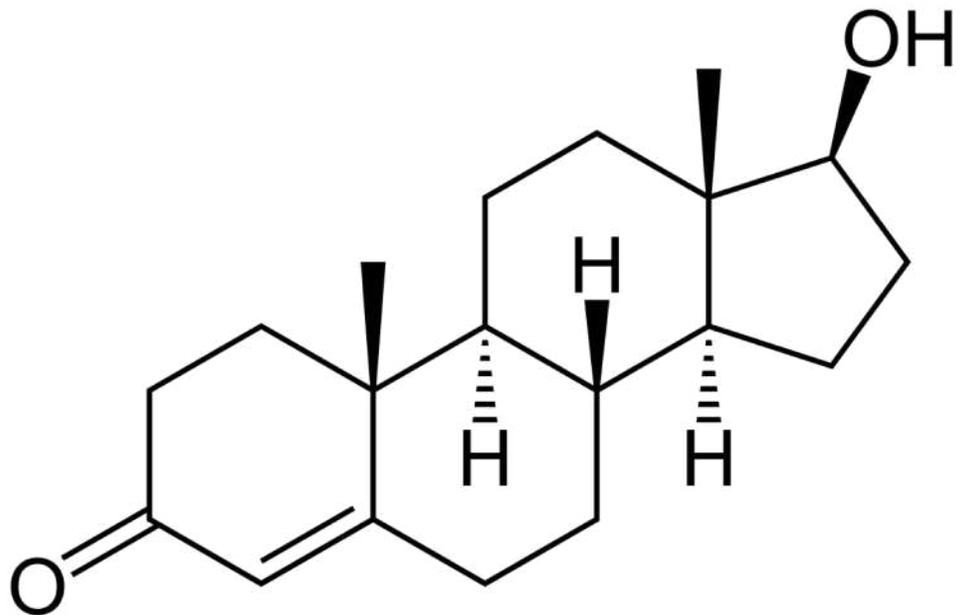
This is the main sex hormone present in women which bring about puberty, prepares the uterus and body for pregnancy and even regulates the menstrual cycle.

4

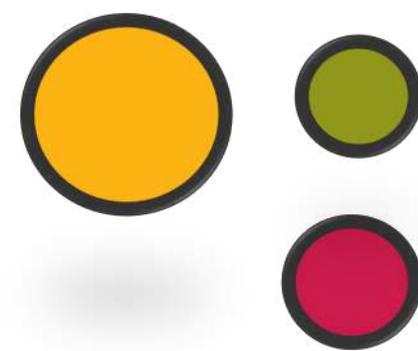
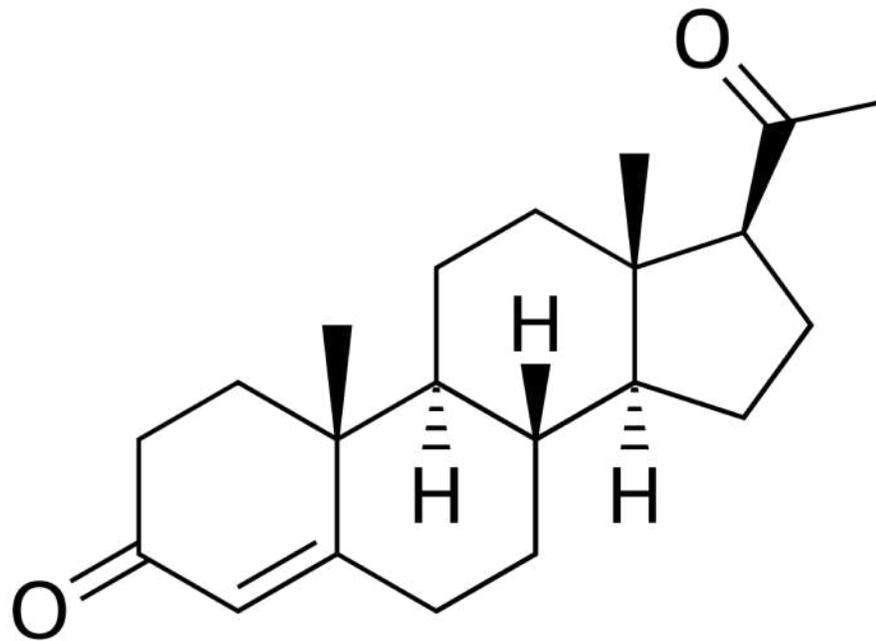
Testosterone

This is the most important sex hormone synthesized in men, which cause puberty, muscle mass growth, and strengthen the bones and muscles, increase bone density and controls facial hair growth.

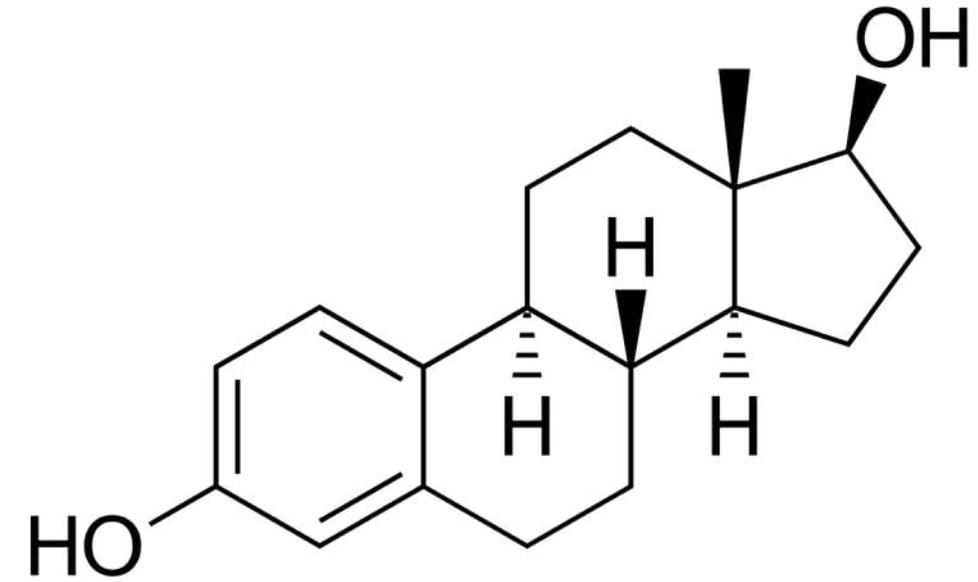
1-Cortisol



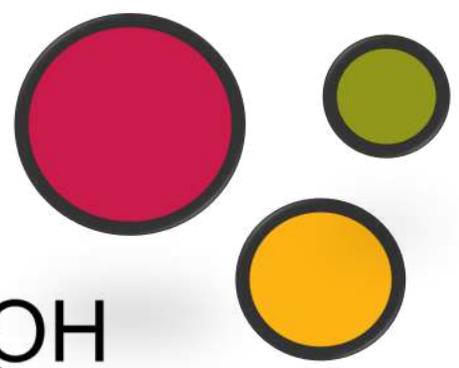
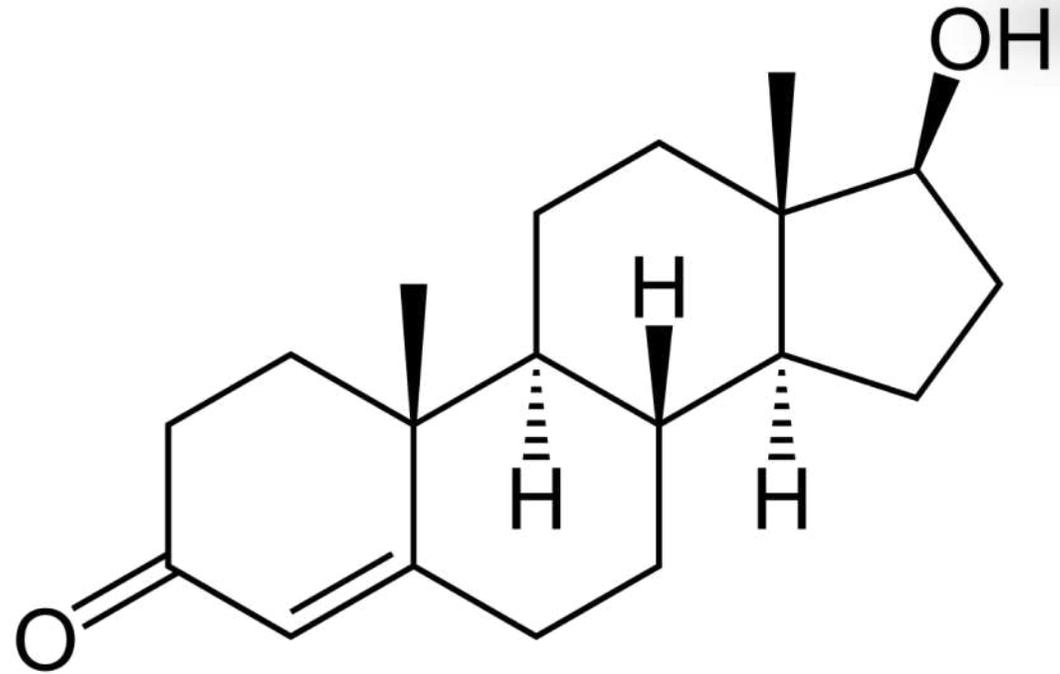
2-Progesterone



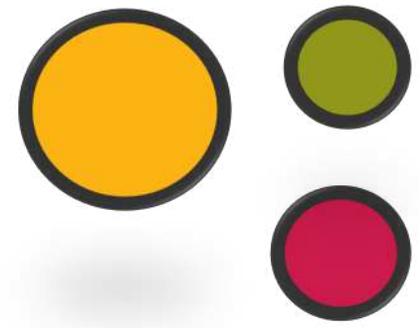
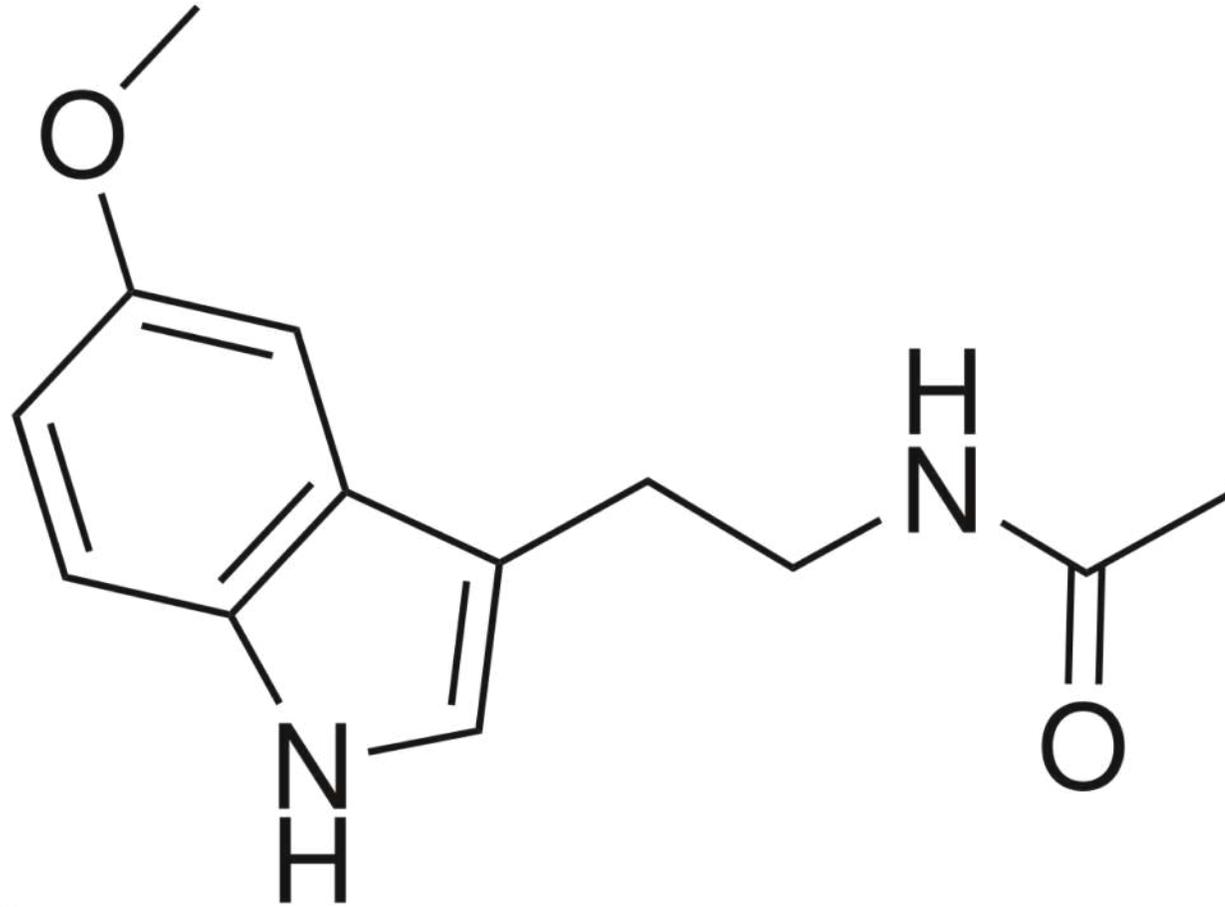
3-Estrogen



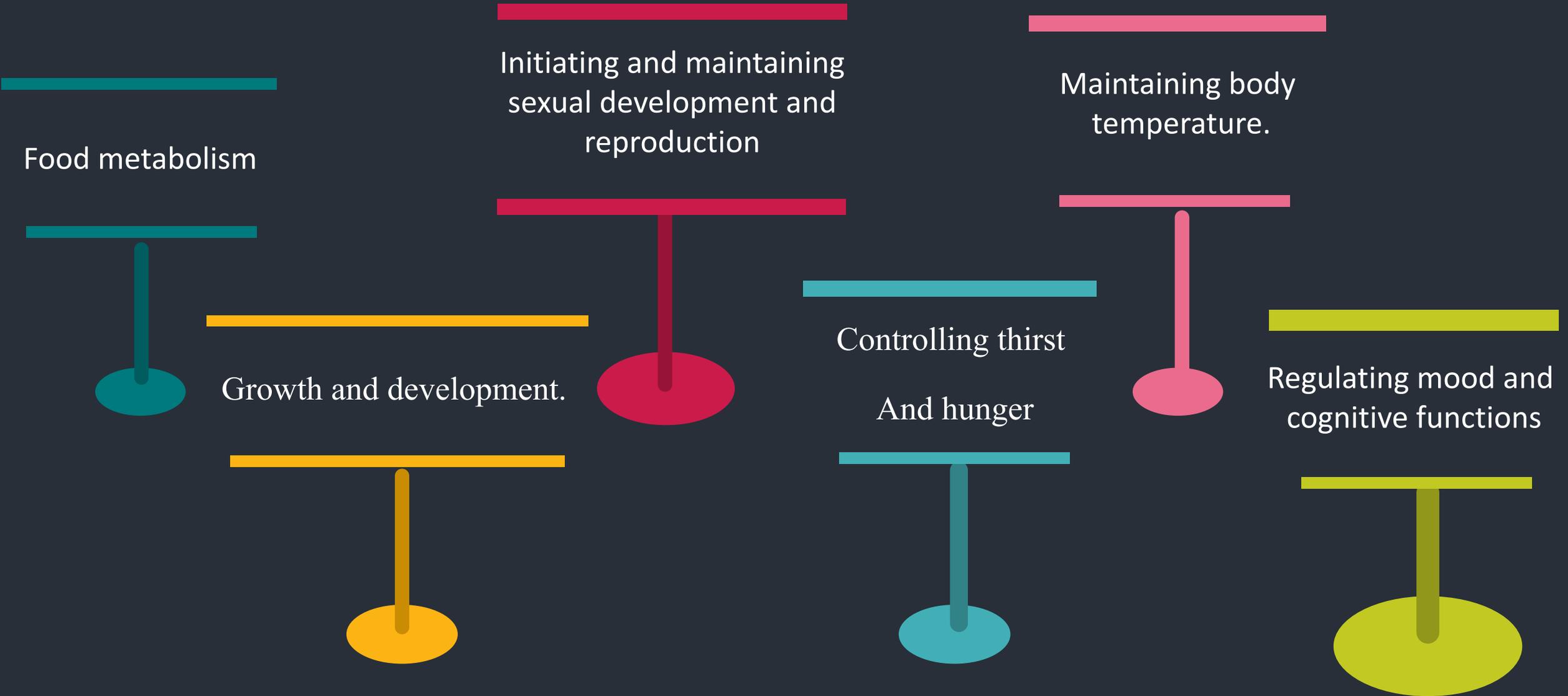
4-Testosterone



5-Melatonin



Functions Of Hormones:



Summary



We know



Hormones are a chemical substance called (signal transduction) responsible for most process and reactions in our cells and the loss of any of these hormones lead to great danger. They are 3 types in nature and each gland secretes special hormones and perform a specific task in our body.

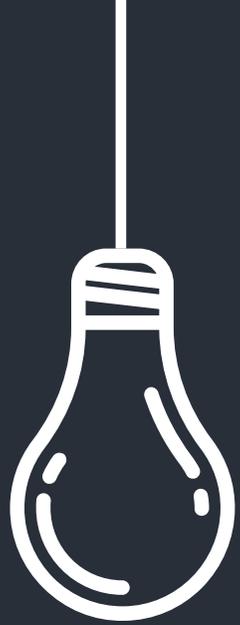




References

1. <https://byjus.com/biology/hormones/>
2. [https://www.oprah.com/health_wellness/how-hormones-affect-mood-weight-sex-drive -](https://www.oprah.com/health_wellness/how-hormones-affect-mood-weight-sex-drive-)
3. <https://courses.lumenlearning.com/boundless-ap/chapter/hormones>





**Thank
You!**