

Human Physiology

Final Examination

Cell physiology

1. Gene expression and its role? Organs involved in gene expression.

_ **Gene expression:** Process from gene to protein (transcription -> translation -> protein modification)

+ **Transcription** (take place inside **nucleus**)

+ **Translation** (take place **cytosol**)

+ **Protein modification** (take place **endoplasmic reticulum**)

_ **Role:** produce **structural protein** (constructing new membrane and new protein components of organelles) and **functional protein** (go to the blood system and functions as hormone or enzymes)

2. Function of Organelles

_ **Plasma Membrane:** separating **intracellular fluid (ICF)** and **extracellular fluid (ECF)**, control movements of molecules into and out of cell.

_ **ER (Endoplasmic Reticulum):**

+ **Rough ER: protein synthesis** (mRNA moves to ribosome on rough ER to start Protein synthesis, creating functional protein + structure protein)

+ **Smooth ER: lipid synthesis**, serves as transport vesicle, store calcium (In some cell, smooth ER secretes lipid-derived steroid hormone.)

_ **Centrosome:** establish the **microtubules** for cell division (**gamma tubulin + alpha tubulin protein** on the surface of centrosome makes the microtubules)

+ If the microtubules are destroyed, cell division stops and gets stuck at metaphase.

_ **Mitochondria** -> **producing energy** in form of ATP for cell, the process of ATP production consisting of **3 phases**:

+ **Glycolysis** (taking place in **cytosol**) -> breaking down **ONE glucose** into **TWO PYRUVATES**
-> produce **2ATP**

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United States Air Force Academy

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Human Physiology Final:

Human Physiology Final Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Human Physiology Final**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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