

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**

Human Physiology Final

L Darling-Hammond



Human Physiology Final:

The Enigmatic Realm of **Human Physiology Final**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Human Physiology Final** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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