

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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Marcel A. Müller



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