

# 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

**ML Morrison**



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