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ANATOMY

Nose/mouth: filtered, warmed, humidified

- Mucus traps bacteria & foreign debris
- Cilia sweep mucus toward throat → digested by stomach

Pharynx: throat (passage for food/air)

Tonsils: clusters of lymphatic tissue

Larynx: contains vocal cords

Epiglottis: covers larynx when liquid/food swallowed

Trachea: windpipe, lined with cartilage (C-shaped)

Bronchi: branches to lungs

Bronchioles: smaller branches

Lungs → Alveoli: air sacs for gas exchange

Defense against disease

Can leave blood vessels and then return back

NEVER LET MONKEYS EAT BANANAS:

- M - Macrophages
- L - Lymphocytes
- N - Neutrophils
- E - Eosinophils
- B - Basophils

Neutrophils

- Change its shape
- Small cells that can change shape
- Most common
- 4-5 day lifespan
- Phagocytic → to arrive at infection
- Engulf bacteria then die

Lymphocytes

- 4 cells produce antibodies
- T cells protect against viruses

Monocytes

- Rare
- Largest in size
- Leave blood vessels to become macrophages
- Engulf bacteria and viruses
- Alert immune system which antigens presenting

Eosinophils

- Destroy worms
- Least common
- Lessen the severity of inflammation

Basophils

- Rare
- Stimulate inflammation by releasing histamines

Platelets

- For clotting

BIO 2010 Human Anatomy and Physiology period 4 2019

Lecture notes

Human physiology

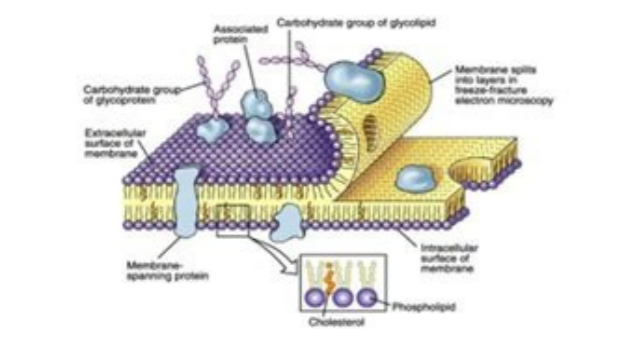
Study of the vital functions of the body and its individual tasks

Are we lucky to have different type of cells?

- Most of these cells are terminally differentiated
 - Less cells in the body of an adult compared to that of a baby
 - Growth can be in differentiation or in general growth
- In an ideal world there would be no damage to our cells so no problems...

Cellular Membrane

- Lipid bilayer
- Integral proteins
- Carbohydrate-protein combination → important for cell communication in terms of immune communication
- Cholesterol
 - Helps membrane in fluidity
 - Temperature dependent
 - Homeostasis
 - Base of estrogen
 - Hormone class Steroids



Cell Organelles

Post picture!

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22. What are the basic functions of the cell?

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