

## THE HUMAN ORGANISM AND CELLULAR PHYSIOLOGY

### HUMAN BODY

- complex system of cells, most of which are grouped into organ systems that have specialized functions.
- These systems can best be understood in terms of the essential functions they serve:
  - ✓ deriving energy from food
  - ✓ protection against injury
  - ✓ internal coordination
  - ✓ reproduction

#### The continual need for energy engages:

- ✓ **SENSES AND SKELETAL MUSCLES** in obtaining food
- ✓ the digestive system in breaking food down into usable compounds and in disposing of undigested food materials
- ✓ **LUNGS** in providing oxygen for combustion of food and discharging the carbon dioxide produced
- ✓ **URINARY SYSTEM** for disposing of other dissolved waste products of cell activity
- ✓ **SKIN AND LUNGS** for getting rid of excess heat (into which most of the energy in food eventually degrades)
- ✓ **CIRCULATORY SYSTEM** for moving all these substances to or from cells where they are needed or produced.

- Like all organisms, humans have the means of protecting themselves.

#### Self-protection

- involves using the
  - ✓ senses in detecting danger
  - ✓ hormone system in stimulating the heart and gaining access to emergency energy supplies
  - ✓ muscles in escape or defense.
- The **SKIN** provides a shield against harmful substances and organisms, such as bacteria and parasites
- The **IMMUNE SYSTEM** provides protection against the substances that do gain entrance into the body and against cancerous cells that develop spontaneously in the body.
- The **NERVOUS SYSTEM** plays an especially important role in survival; it makes possible the kind of learning humans need to cope with changes in their environment.
- ✦ The internal control required for managing and coordinating these complex systems is carried out by the brain and nervous system in conjunction with the hormone-secreting glands.
- Much of the study of physiology centers on the body's tendency toward **HOMEOSTASIS**.

- ✦ The electrical and chemical signals carried by nerves and hormones integrate the body as a whole.
- ✦ The many cross-influences between the hormones and nerves give rise to a system of coordinated cycles in almost all body functions.
- ✦ **Nerves** can excite some glands to excrete hormones, some hormones affect brain cells, the brain itself releases hormones that affect human behavior, and hormones are involved in transmitting signals between nerve cells.
- ✦ Certain drugs—legal and illegal—can affect the human body and brain by mimicking or blocking the hormones and neurotransmitters produced by the hormonal and nervous systems.
- ✦ **Reproduction** ensures continuation of the species.
- ✦ The **sexual urge** is biologically driven, but how that drive is manifested among humans is determined by psychological and cultural factors.
- ✦ **Sense organs and hormones** are involved, as well as the internal and external sex organs themselves.
- ✦ The fact that sexual reproduction produces a greater genetic variation by mixing the genes of the parents plays a key role in evolution.

### PHYSIOLOGY

- are processes and the functions of the organism
- study of how the organisms function
- The root word "physi" comes from a Greek word that is broadly translated as '**NATURAL ORIGIN**.'
- The same root is used to form the words physician, physical, and physics.
- **Physiology** is also a study of how nature functions : in this case, within a living organism.
- A field that links basic sciences and medicine.
- human body is much more than the sum of its parts, and life relies upon this total function, not just on the function of individual body parts in isolation from the others.
- **goal of physiology is to explain** the:
  - ✓ physical and chemical factors that are responsible for the origin, development
  - ✓ progression of life
- Vast field of physiology can be divided into
  - ✓ viral physiology
  - ✓ bacterial physiology
  - ✓ cellular physiology
  - ✓ plant physiology
  - ✓ human physiology
  - ✓ many more subdivisions

### HUMAN PHYSIOLOGY

- a scientific study of the chemistry and physics of the structures of the body and the ways in which they work together to support the functions of life.

### HOMEOSTASIS

- a state of steady internal conditions maintained by living things.

# Lecture Notes On Human Physiology

**Wolfgang Guggemos**



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