

# ANATOMY AND PHYSIOLOGY

## Introduction of Anatomy and Physiology

### WHAT IS?

#### Anatomy

- Study of the structure and shape of the body and its parts.
- Observation is used to see sizes and relationships of parts.

Two kinds of Anatomy:

#### A. Gross Anatomy

- Large Structures
- Easily observable and can be seen by the naked eye

#### B. Microscopic Anatomy

- Structures are too small to be seen
- Cells and tissues can be viewed only with a microscope

Two Approaches to The Study of Anatomy:

- A. Systemic anatomy - study of the body by systems, such as the cardiovascular, nervous, skeletal, and muscular systems
- B. Regional anatomy - study of the organization of the body by areas.

#### Physiology

- Study of how the body and its parts work or function
  - Structure determines what functions can occur
- For example, the air sacs of the lungs have very thin walls, a feature that enables them to exchange gases and provide oxygen to the body

Two types of Physiology:

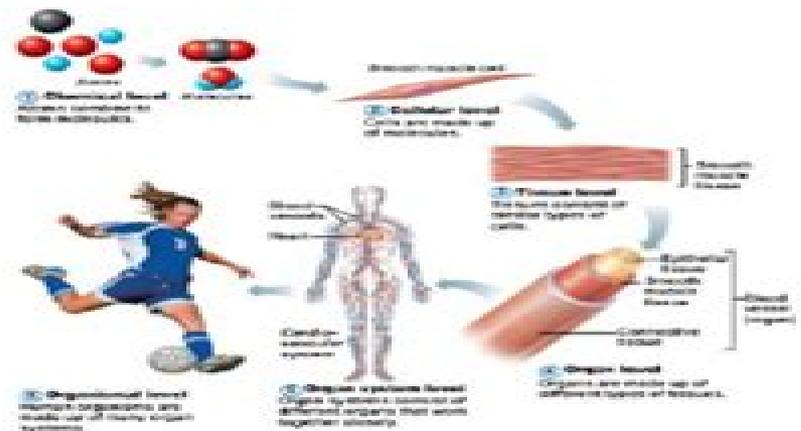
- A. Human physiology - study of a specific organism, the human
- B. Cellular physiology and Systemic physiology - subdivisions that emphasize specific organizational levels.

### Characteristics Of Life

1. Organization
2. Metabolism
3. Responsiveness
4. Growth
5. Development
6. Reproduction

### Levels of Structural Organization

1. Atoms - The basic building block of matter and chemistry. Contains three subatomic particles: protons, neutrons, and electrons.
2. Molecules - A group of two or more atoms that form the smallest identifiable unit.
3. Cells - The basic unit of life and the structural, functional, and biological units of all living beings.
4. Tissues - A group of cells that are similar in structure and perform a specific function.
5. Organs - A group of tissues in a living organism that have been adapted to perform a specific function.
6. Organ systems - A group of organs that work together to perform a certain function in an organism's body.
7. Organisms - A living thing that has an organized structure, can react to stimuli, reproduce, grow, adapt, and maintain homeostasis.



### HOMEOSTASIS

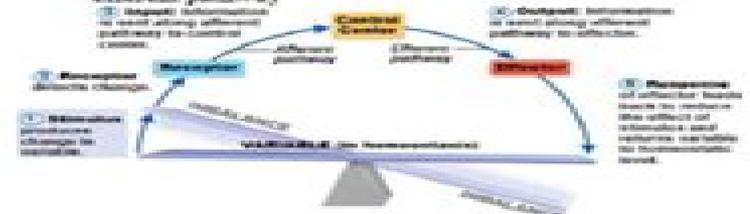
**Homeostasis** — maintenance of relatively stable internal conditions. It is a dynamic state of equilibrium, or balance and it is necessary for normal body functioning and to sustain life. The disturbance in homeostasis results in disease is called homeostatic imbalance

Main Controlling Systems:

- Nervous System
- Endocrine System

All homeostatic control mechanisms have at least three components: receptor, control center, and effector

1. Receptor
  - Responds to changes in the environment (stimuli)
  - Sends information to control center along an afferent pathway
2. Control center
  - Determines set point
  - Analyzes information
  - Determines appropriate response
3. Effector
  - Provides a means for response to the stimulus
  - Information flows from control center to effector along efferent pathway



### FEEDBACK MECHANISM

#### • Negative feedback

Includes most homeostatic control mechanisms

Shuts off the original stimulus or reduces its intensity

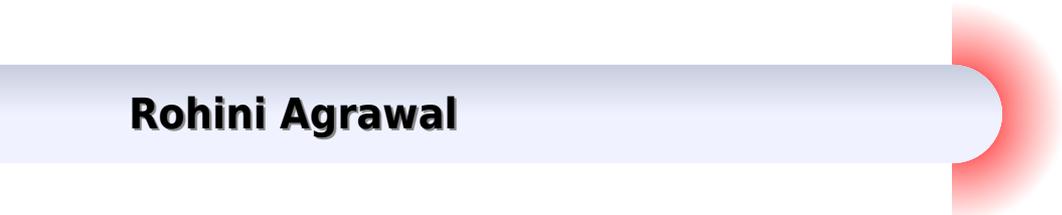
Works like a household thermostat

Any deviation from the set point is made smaller or is resisted

Does not prevent variation but maintains variation within a normal range.

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**Rohini Agrawal**



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in the field of medicine physiology and biology It is one of the intentions of this book to put forward some recommendations and examples of lighting design which take into account both the visual and non visual effects of light on humans These may be of particular interest to any professional in the field of lighting occupational safety and health and interior design What effects on health can a light overdose or light deficiency have What is bad light The authors of the monograph provide answers to these questions Just as for a physicist the dual nature of light comprises an electromagnetic wave and a photon the duality of light for a physician comprises visual and non visual effects Prof Jacek Przybylski Medical University of Warsaw This is a unique publication in the field of lighting technology The authors have skillfully combined both the technical and biomedical aspects involved which is unprecedented in the literature available As a result an important study has been created for many professional groups with a significant impact on the assessment of risks associated with LED sources Prof Andrzej Zaj c Military University of Technology Warsaw [Euro Abstracts](#) ,2001 [Science](#) John Michels (Journalist),2011

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physiology including basic pathology and pathophysiology of important diseases and disorders This new edition presents additional illustrations to enhance understanding of key concepts including pathophysiology and diagnostics Included for the first time is an introduction to surface anatomy while other updating reflects current scientific knowledge and developments including coronavirus Enhanced learning features and an extensive online resource help you grasp all the important areas Like millions of readers before you you will treasure Ross Wilson as a go to resource that you will refer to time and again to support this critical aspect of your healthcare education Clear and easy to read suitable for students new to the area and anyone whose first language is not English Hundreds of stunning illustrations and images to make learning easy Helpful learning features such as Learning Outcomes boxes colour coding and orientation icons to facilitate navigation Definitions of common prefixes suffixes and roots examples glossary and an appendix of normal biological values Self assessment activities in each chapter including spot check questions for each section and case studies with answers to develop understanding of key principles Accompanying website with animations videos audio glossary and other self assessment material Evolve Study Resources Online content offered with Ross Wilson Anatomy and Physiology in Health and Illness 14th edition includes New for this edition a set of expert narrated 3D videos summarizing key topics in the book powered by Complete Anatomy the world s most advanced 3D anatomy platform Over 120 animations clarifying underlying principles and make learning fun More than 1700 audio glossary entries Body Spectrum online colouring and self test software Self assessment questions to help students test their knowledge [Human Physiology Case Histories](#) Lauralee Sherwood,2011-12-15

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