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**BIOLOGY ( LIFE SCIENCES)**

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# BIOLOGY ( LIFE SCIENCES)

- [Humanology](#)

## FIELDS

- LIFE SCIENCES
  - LEVEL BASED STUDY
    - [Cell biology \(cytology\)](#) – study of the [cell](#) as a complete unit, and the molecular and chemical interactions that occur within a living [cell](#)
      - Genetics – the study of genes and heredity
    - [Histology](#) – the study of tissues
    - Organology , organ morphology , systems physiology and anatomy
      - Immunology – the study of the immune system
      - [Neuroscience](#) – the study of the nervous system
      - Systems biology – the study of the integration and dependencies of various components within a biological system, with particular focus upon the role of metabolic pathways and [cell](#)-signaling strategies in physiology
    - whole [body](#) level
      - study of structure
        - [Anatomy](#) – study of form and function, in plants, animals, and other organisms, or specifically in humans
      - study of function
        - [Physiology](#) – the study of the functioning of living organisms and the organs and parts of living organisms
      - study of molecular or chemical structure and process at the whole level
        - [Biochemistry](#) – study of the chemical reactions required for [life](#) to exist and function, usually a focus on the cellular level
        - Structural biology – a branch of molecular biology, biochemistry, and biophysics concerned with the molecular structure of biological macro-molecules
        - Enzymology – study of enzymes
      - study of quantum structures in [life](#)
        - Quantum biology – the study of quantum phenomena in organisms
      - application of physics to biology
        - Biophysics – study of biological processes by applying the theories and methods that have [been](#) traditionally used in the physical sciences
        - Biomechanics – the study of the mechanics of living beings
      - Application of mathematics to biology
        - Theoretical biology – the use of abstractions and mathematical models to study biological phenomena
  - STUDY OF ACCIDENTS , FOREIGN ORGANISMS
    - Toxicology – the nature, effects, and detection of poisons
    - Bacteriology – study of bacteria
    - [Microbiology](#) – the study of microscopic organisms (microorganisms) and their interactions with other living organisms
    - Mycology – the study of fungi
    - Parasitology – the study of parasites, their hosts, and the relationship between

them.

- **Pathology** – the study of the causes and effects of disease or injury
- **Virology** – the study of viruses like submicroscopic, parasitic particles of genetic material contained in a protein coat – and virus-like agents
- **STUDY OF ARTIFICIAL AND SYNTHETIC INTEGRATIONS IN TO LIFE**
  - **Synthetic biology** – the design and construction of new biological entities **such** as enzymes, genetic circuits and cells, or the redesign of existing biological systems
  - **Pharmacology** – the study of drug **action**
- **STUDY OF CAUSES AND ORIGINS OF LIFE**
  - **Developmental biology** – the study of the processes through which **an** organism forms, from zygote to full structure
- **STUDY OF OTHER SPECIES**
  - **Zoology** – the study of animals
- **Ethology** – study of behavior
- **STUDY OF DEATH**
  - **Thanatology**

## APPLIED LIFE SCIENCES

- surgery
- radiology

## SPECIES STUDY

- **Plant biology**
- **Animal biology**
- **Human biology**

## MODELS

- **body**
  - **animate**
    - **living**
      - **sensitive**
        - **animal**
          - **rational**
            - **human**
              - **socrates , kashyap , plato**
            - **irrational**
              - **beast**
          - **insensitive**
            - **plant**
    - **inanimate**
      - **mineral**

## CATEGORIES

Cell biology (cytology)	<ul style="list-style-type: none"> <li>• Cell anatomy</li> <li>• Cell physiology or cell functions</li> <li>• Cell chemistry or cell molecules</li> <li>• Cellular pathology</li> <li>• human cytology •</li> </ul>	<ul style="list-style-type: none"> <li>• Cell types</li> <li>• Cell division</li> <li>• genetics</li> <li>• Cell injury • Cell death</li> </ul>
Histology	<ul style="list-style-type: none"> <li>• Tissue structure</li> <li>• Tissue physiology</li> <li>• Tissue chemistry</li> <li>• Tissue pathology</li> <li>• Tissue viewing</li> <li>• Histology and Histological Techniques</li> <li>• human histology</li> </ul>	<ul style="list-style-type: none"> <li>• Tissue types</li> <li>• Tissue injury</li> <li>• Tissue death</li> </ul>
Biochemistry	<ul style="list-style-type: none"> <li>• Neurochemistry • Endocrine chemistry • Thought chemistry • Psychochemistry • Respiratory chemistry • Cardiovascular chemistry • Gastroentero chemistry • Uro chemistry</li> <li>• Human biochemistry</li> </ul>	
Physiology	<ul style="list-style-type: none"> <li>• Neurophysiology • Endocrine physiology • Thought physiology • Psycho physiology • Respiratory physiology • Cardiovascular physiology • Gastroentero physiology • Uro physiology</li> </ul>	
Pharmacology	<ul style="list-style-type: none"> <li>• Neuropharmacology • Endocrine pharmacology • Thought pharmacology • Psycho pharmacology • Respiratory pharmacology • Cardiovascular pharmacology • Gastroentero pharmacology • Uro pharmacology</li> </ul>	
Pathology	<ul style="list-style-type: none"> <li>• Neuropathology • Endocrine pathology • Thought pathology • Psycho pathology • Respiratory pathology • Cardiovascular pathology • Gastroentero pathology • Uro pathology</li> </ul>	
microbiology	<ul style="list-style-type: none"> <li>• Neuromicrobiology • Endocrine microbiology • Thought microbiology • Psycho microbiology • Respiratory microbiology • Cardiovascular microbiology • Gastroentero microbiology • Uro microbiology</li> </ul>	
surgery	XX	
radiology	XX	
thanatology	XX	
bioelectrics	Study of Bioelectricity	
thanatology	Human biocommunication	
bioenergetics	XX	
biophysics	XX	
biomechanics	Biomechanics	
biotheoretics	XX	

[biogenetics](#)                      [Genetics](#) • [Molecular biology](#)

**ANATOMY**

<a href="#">Anatomy</a>	<ul style="list-style-type: none"><li>• <a href="#">Neuroanatomy</a> • <a href="#">Endocrine anatomy</a> • <a href="#">Thought anatomy</a> • <a href="#">Psycho anatomy</a> • <a href="#">Respiratory anatomy</a> • <a href="#">Cardiovascular anatomy</a> • <a href="#">Gastroentero anatomy</a> • <a href="#">Uro anatomy</a></li><li>• <a href="#">Anatomy</a></li></ul>
<a href="#">cadaveric regional anatomy</a>	XX
<a href="#">Anatomia superficialis et viva (Surface and living Anatomy)</a>	XX

**ORGANOLOGY OR SYSTEMIC LEVELS**

- [Human organology and organization](#)

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