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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)

- Cell anatomy
- Cell physiology or cell functions
- Cell chemistry or cell molecules
- Cellular pathology
- human cytology .
- Cell types
- Cell division
- genetics
- Cell injury . Cell death

Histology

- Tissue structure
- Tissue physiology
- Tissue chemistry
- Tissue pathology
- Tissue viewing
- Histology and Histological Techniques
- human histology
- Tissue types
- Tissue injury
- Tissue death

Biochemistry

- Neurochemistry . Endocrine chemistry . Thought chemistry . Psychochemistry . Respiratory chemistry . Cardiovascular chemistry . Gastroentero chemistry . Uro chemistry
- Human biochemistry

Physiology

Neurophysiology . Endocrine physiology . Thought physiology . Psycho physiology . Respiratory physiology . Cardiovascular physiology . Gastroentero physiology . Uro physiology

Pharmacology

Neuropharmacology . Endocrine pharmacology . Thought pharmacology . Psycho pharmacology . Respiratory pharmacology . Cardiovascular pharmacology . Gastroentero pharmacology . Uro pharmacology

Pathology

Neuropathology . Endocrine pathology . Thought pathology . Psycho pathology . Respiratory pathology . Cardiovascular pathology . Gastroentero pathology . Uro pathology

microbiology

Neuromicrobiology . Endocrine microbiology . Thought microbiology . Psycho microbiology . Respiratory microbiology . Cardiovascular microbiology . Gastroentero microbiology . Uro microbiology

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

Anatomy	• Neuroanatomy . Endocrine anatomy . Thought anatomy . Psycho anatomy . Respiratory anatomy . Cardiovascular anatomy . Gastroentero anatomy . Uro anatomy • Anatomy
cadaveric regional anatomy	XX
Anatomia superficalis et viva (Surface and living Anatomy)	XX

ORGANOLOGY OR SYSTEMIC LEVELS

- Human organology and organization

neurology	Neuroanatomy . neuro histology . neuro cytology . Neurophysiology . Neurochemistry . Neuropathology . Neurotoxicology . neuropharmacology . Neuromicrobiology . Neuroradiology . Neurooncology . Neurogenetics . neuroembryology . Neuroepidemiology . Neuro analogies .Neurolinguistics . Neuro surgery . Neuromanagement . Neuroprophylaxis . Neuroetiologies . Neurosymptomatology
Endocrinology	. endocrine anatomy . endocrine histology . endocrine cytology . endocrine physiology . endocrine chemistry . endocrine pathology . endocrine toxicology . endocrine pharmacology . endocrine microbiology . endocrine radiology . endocrine oncology . endocrine genetics . endocrine embryology . endocrine epidemiology . endocrine analogies . endocrine management . endocrine prophylaxis . endocrine etiologies . endocrine symptomatology . Endocrine surgical procedures . Endocrine diagnostic techniques
ophthalmology	. eye anatomy . eye histology . eye cytology . eye physiology . eye chemistry . eye pathology . eye toxicology . eye pharmacology . eye microbiology . eye radiology . eye oncology . eye genetics . eye embryology . eye epidemiology . eye analogies . eye linguistics . eye_management . eye prophylaxis . eye etiologies . eye symptomatology
otology	. ear anatomy . ear histology . ear cytology . ear physiology . ear chemistry . ear pathology . ear toxicology . ear pharmacology . ear microbiology . ear radiology . ear oncology . ear genetics . ear embryology . ear epidemiology . ear analogies . ear linguistics . ear_management . ear prophylaxis . ear etiologies . ear symptomatology
Rhinology	. nose anatomy . nose histology . nose cytology . nose physiology . nose chemistry . nose pathology . nose toxicology . nose pharmacology . nose microbiology . nose radiology . nose oncology . nose genetics . nose embryology . nose epidemiology . nose analogies . nose linguistics . nose_management . nose prophylaxis . nose etiologies . nose symptomatology

orology	. mouth anatomy . mouth histology . mouth cytology . mouth physiology . mouth chemistry . mouth pathology . mouth toxicology . mouth pharmacology . mouth microbiology . mouth radiology . mouth oncology . mouth genetics . mouth embryology . mouth epidemiology . mouth analogies . mouth linguistics . mouth_management . mouth prophylaxis . mouth etiologies . mouth symptomatology
osteology	. Skeletal structure terminology . bone nomenclature . bone anatomy . bone histology . bone cytology . bone physiology . bone chemistry . bone pathology . bone toxicology . bone pharmacology . bone microbiology . bone radiology . bone oncology . bone genetics . bone embryology . bone epidemiology . bone analogies . bone linguistics . bone management . bone prophylaxis . bone etiologies . bone symptomatology
Dermatology	. skin anatomy . skin histology . skin cytology . skin physiology . skin chemistry . skin pathology . skin toxicology . skin pharmacology . skin microbiology . skin radiology . skin oncology . skin genetics . skin embryology . skin epidemiology . skin analogies . skin linguistics . skin management . skin prophylaxis . skin etiologies . skin symptomatology
myology	. Muscle terminology . muscle anatomy . muscle histology . muscle cytology . muscle physiology . muscle chemistry . muscle pathology . muscle toxicology . muscle pharmacology . muscle microbiology . muscle radiology . muscle oncology . muscle genetics . muscle embryology . muscle epidemiology . muscle analogies . muscle linguistics . muscle management . muscle prophylaxis . muscle etiologies . muscle symptomatology
pulmonology	. pulmo anatomy . pulmo histology . pulmo cytology . pulmo physiology . pulmo chemistry . pulmo pathology . pulmo toxicology . pulmo pharmacology . pulmo microbiology . pulmo radiology . pulmo oncology . pulmo genetics . pulmo embryology . pulmo epidemiology . pulmo analogies . pulmo management . pulmo prophylaxis . pulmo etiologies . pulmo symptomatology . Gold standards in pulmonology
laryngology	a2
cardiology	. cardio anatomy . cardio histology . cardio cytology . cardio physiology . cardio chemistry . cardio pathology . cardio toxicology . cardio pharmacology . cardio microbiology . cardio radiology . cardio oncology . cardio genetics . cardio embryology . cardio epidemiology . cardio analogies . cardio linguistics . cardio management . cardio prophylaxis . cardio etiologies . cardio symptomatology
urology	. uro anatomy . uro histology . uro cytology . uro physiology . uro chemistry . uro pathology . uro toxicology . uro pharmacology . uro microbiology . uro radiology . uro oncology . uro genetics . uro embryology . uro epidemiology . uro analogies . uro linguistics . uro management . uro prophylaxis . uro etiologies . uro symptomatology
Gastroenterology	. gastroentero anatomy . gastroentero histology . gastroentero cytology . gastroentero physiology . gastroentero chemistry . gastroentero pathology . gastroentero toxicology . gastroentero pharmacology . gastroentero microbiology . gastroentero radiology . gastroentero oncology . gastroentero genetics . gastroentero embryology . gastroentero epidemiology . gastroentero analogies . gastroentero management . gastroentero prophylaxis . gastroentero etiologies . gastroentero symptomatology
Immunology	a2
Haematology	a2

Andrology	. Male roles . andro anatomy . andro histology . andro cytology . andro physiology . andro chemistry . andro pathology . andro toxicology . andro pharmacology . andro microbiology . andro radiology . andro oncology . andro genetics . andro embryology . andro epidemiology . andro analogies . andro linguistics . andro management . andro prophylaxis . andro etiologies . andro symptomatology
gynecology	. gyneco anatomy . gyneco histology . gyneco cytology . gyneco physiology . gyneco chemistry . gyneco pathology . gyneco toxicology . gyneco pharmacology . gyneco microbiology . gyneco radiology . gyneco oncology . gyneco genetics . gyneco embryology . gyneco epidemiology . gyneco analogies . gyneco linguistics . gyneco management . gyneco prophylaxis . gyneco etiologies . gyneco symptomatology
obstetrics	• Mother physiology . Mother anatomy . Mother pathology . Mother biochemistry . Mother symptomatology . Mother microbiology . Mother pharmacology • Womb anatomy . Womb physiology . Womb biochemistry . Womb pathology • Foetal embryology . Foetal physiology . Foetal Biochemistry . Foetal Genetics . Foetal pathology . Foetal microbiology

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