



Kingdom Animalia

Multicellular Holozoic Life

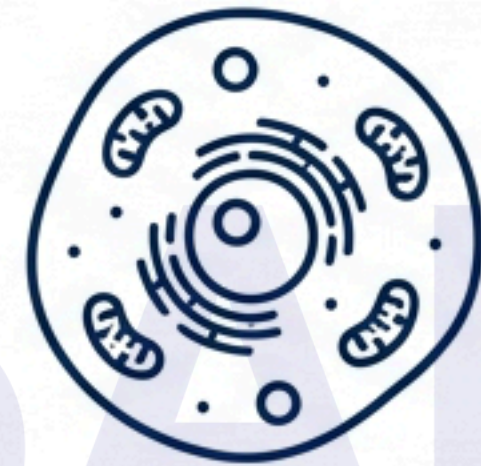
Cellular Organization

Kingdom Animalia consists of multicellular, Eukaryotic organisms defined by a critical cellular absence.



Has Cell Wall (Cellulose)

Rigid structural boundary.



No Cell Wall

Allows for cellular flexibility, diverse tissue formation, and complex organismal movement.



Unlike Monera, Protista, Fungi, or Plantae, Animalia is the only Kingdom with zero cell wall presence.

Energy Strategy: Mode of Nutrition

Animals are heterotrophic, depending directly or indirectly on plants. They utilize a **Holozoic** mode of nutrition.





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$$E=mc^2$$



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Form & Morphology

Definite Shape and Size



- Animals follow a highly structured, **defined** growth pattern.
- They develop into adults with a genetically predetermined shape, size, and body plan.

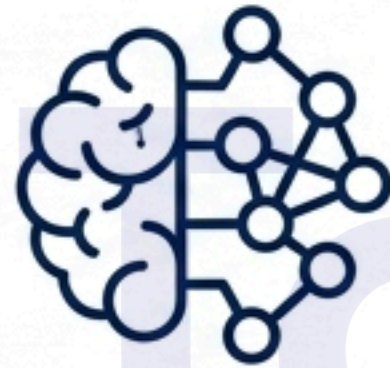
The Operating System

Higher forms of *Animalia* exhibit elaborate, rapid environmental response systems.



Sensory Mechanism

Detects and processes stimuli from the external environment.



Neuromotor System

Processes sensory information and coordinates precise muscle responses.



Locomotion

The vast majority of animals are capable of complex, active movement.

Reproductive Biology



The dominant phase in the animal life cycle is strictly diploid ($2n$).

1. Copulation

Sexual reproduction initiated via the physical interaction of male and female organisms.



2. Fertilization

The successful formation of a unified diploid zygote.



3. Development

Complex Embryological progression leading to a fully formed new organism.

Key Takeaways: Kingdom Animalia

- ✓ **Cellular:** Eukaryotic, Multicellular, strictly No Cell Wall.
- ✓ **Nutrition:** Heterotrophic, characterized by Holozoic ingestion.
- ✓ **Digestion:** Takes place in an internal cavity; reserves stored as Glycogen or Fat.
- ✓ **Morphology:** Genetically defined growth pattern yielding definite shape and size.
- ✓ **Systems:** Most capable of locomotion; higher forms utilize elaborate sensory and Neuromotor functions.
- ✓ **Reproduction:** Predominantly sexual via copulation, followed by Embryological development.



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