

CELL THEORY

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FUNCTIONS OF LIFE

All living things carry out seven basic functions integral to survival:

- **Metabolism:** Living things undertake essential chemical reactions
- **Reproduction:** Living things produce offspring, either sexually or asexually
- **Sensitivity:** Living things are responsive to internal and external stimuli
- **Homeostasis:** Living things maintain a stable internal environment
- **Excretion:** Living things possess the capacity to remove waste products
- **Nutrition:** Living things exchange materials / gases with the environment
- **Growth / Movement:** Living things can move and change shape or size



CELL THEORY

The cell theory describes the structural organisation of all living things. According to the cell theory:

- The cell is the smallest unit of life (unicellular organisms are capable of all seven functions of life)
- All living things are composed of cells (or their cellular products – such as hair, nails, etc.)
- Cells only arise from pre-existing cells (spontaneous generation of life is no longer possible on Earth)

CELLS

All cells share four basic features:

- They are enclosed by a **membrane**, which separates internal contents from the external environment
- They contain an internal fluid called the **cytosol**, in which various biological processes are able to occur
- There is **genetic material**, which functions as a set of instructions (i.e. a blueprint) for cellular activity
- They possess **ribosomes**, which function to translate specific genetic instructions within the cell

ATYPICAL CELLS

Certain types of eukaryotic cells do not conform to the standard organisation of a typical cell:

- Striated muscle fibres are formed from the fusion of individual muscle cells and so are **multinucleated**
- Aseptate fungal hyphae **lack internal partitions** between cells and so have a continuous cytoplasm
- Sieve tube elements are connected by plasmodesmata to form **supracellular assemblies** along the stem
- Red blood cells have **no nucleus** and lack the capacity to replicate (new cells produced by bone marrow)

Cell Theory And Cell Theory Study Guide

J Elliott



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