

## TOPIC 1: CELL BIOLOGY

### 1.1. Introduction to cells

#### Cell theory:

- All living things are composed of cells
- The cell is the smallest unit of life
- Cells only arise from pre-existing cells

#### Atypical examples

- **Striated muscle** → (challenge: one nucleus) long and multi-nucleated
- **Fungal hyphae** → (challenge: single unit) very large, multi-nucleated, continuous cytoplasm
- **Chlamydomonas** → (challenge: simple and small) gigantic, complex form

#### Functions of life (MR TIGRIN)

1. **Metabolism** – all the chemical reactions in the cell which are responsible for all the actions of organisms (e.g. respiration)
2. **Response** – living things can respond to changes in the environmental conditions
3. **Homeostasis** – the maintenance and regulation of internal cell conditions (e.g. water and pH)
4. **Growth** – living things can grow or change in size/shape
5. **Reproduction** – living things reproduce offspring
  - **Sexual reproduction** (two parents)
  - **Asexual reproduction** (one parent)
6. **Excretion** – the removal of metabolic waste
7. **Nutrition** – feeding by either the synthesis of organic molecules (e.g. photosynthesis) or the absorption of organic matter

#### Surface Area : Volume

Plasma membrane is responsible for import/export in the cell.

#### SMALLER THE CELL:

- Better to **lose heat** so that enzymes do not denature
- Greater SA:Vol ratio for diffusion → **cell more efficient**
- Diffusion pathway is shorter → cell more efficient

#### GREATER THE CELL:

- Decreased SA:Vol ratio → cell conserve better heat

**Example 1:** Intestine folded covered of villi and microvilli → create larger SA:Vol → greater rate of absorption

**Example 2:** Lungs made of alveoli → create larger SA:Vol

#### Magnification Formula



1mm = 1000µm (micrometres)  
1mm = 1.000.000nm (nanometres)

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**Marc Abrioux, Jill Rutherford**



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web sep 2 2023 the cause of the difference between heredity and inheritance is the way the genetic traits are interpreted heredity is defined as the genetic characteristics that are passed on from parents to offsprings it is often known as genetics inheritance is the walkway that the genetic traits take and their expression from one generation to another

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web question egg cells and sperm cells each contain the structures given in the box chromosome gene nucleus list these three structures in size order starting with the smallest 2 marks

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web be sure to include which type of cell or cells in the parent must be affected in order for this to happen answers may vary sample answer a gene mutation in a parent's gametes otherwise known as a germline mutation can be passed down to their offspring

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web the process that results in haploid cells is called meiosis meiosis is a series of events that arrange and separate chromosomes into daughter cells during the interphase of meiosis each chromosome is duplicated in meiosis there are two

rounds of nuclear division resulting in four nuclei and usually four haploid daughter cells

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