

Guided Notes: Discovery of Cells and Cell Structure

Slide 2.1: Discovery of Cells

- Robert Hooke (1665): First to see cells, described them as "tiny boxes" surrounding rooms where animals breathe.
- Anton van Leeuwenhoek (1673): Discovered cells in pond water, referred to them as "animalcules".
- Cell Theory:
 1. Living things are made of cells.
 2. Cells are the basic unit of structure and function.
 3. All cells come from existing cells.

Slide 2.2: Prokaryotic Cells

- Characteristics of living things:
 - Don't nucleus (no DNA)
 - Some have flagella for movement.
 - PS attach to surfaces.
 - divide to reproduce.
- Examples: E. coli, Streptococcus.
- Question: Prokaryotic cells do not have a nucleus.

Slide 2.3: Basic Parts of the Cell

- Components Present in All Cells:
 - Ribosomes - make protein
 - Cytoplasm - fluid within the cell
 - DNA - genetic material
 - Cytoskeleton - framework of cell
 - Cell Membrane - outer membrane
- Question: Ribosomes are responsible for making proteins.

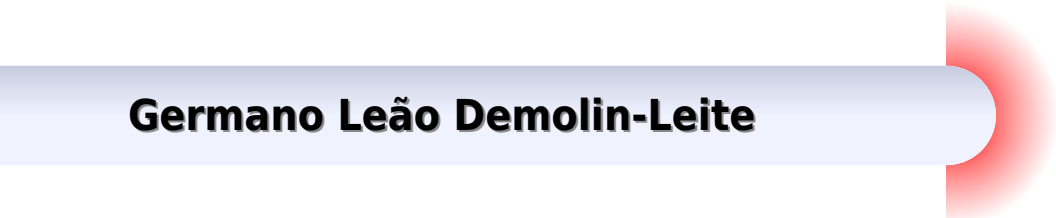
Slide 2.3: Basic Parts of the Cell (continued)

- Organelles:
 - Endoplasmic Reticulum: Transport can be rough (has ribosomes) or smooth (no ribosomes).
 - Golgi Apparatus: Packages and exports proteins (referred to as the "post office").
 - Lysosomes: Contain digestive enzymes; involved in breaking down materials.
 - Mitochondria: Cell's energy center; turns food into ATP, the "powerhouse of the cell."
 - Cytoskeleton: Provides support, shape and movement.
- Question: What organelle acts as the "powerhouse of the cell," turning food into mitochondria?

= Energy

Succession Biology Packet Answer Key

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