

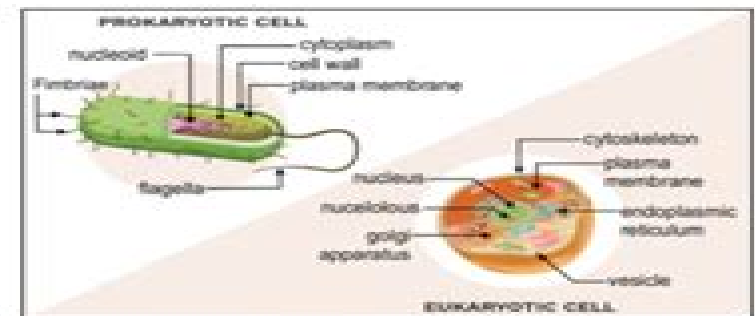
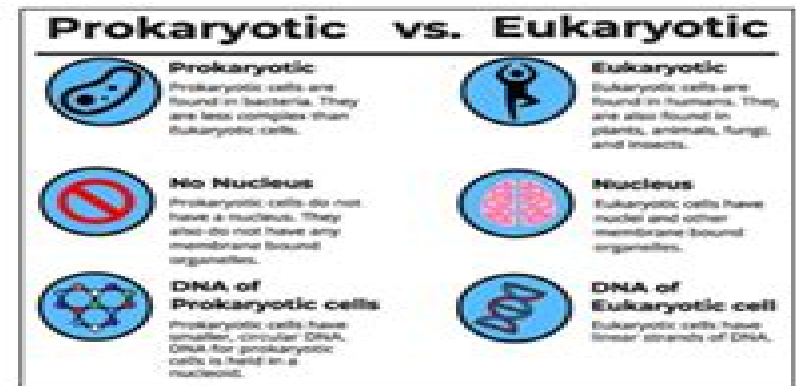
Chapter 7: Inside the Cell

I) INTRODUCTION

- Cells were first discovered (and thus, given their name) by **Robert Hooke** while looking at cork tissue under a microscope
- Cell theory** (discovered by **Schwann & Schleiden**)—¹The cell is the basic functional/organizational unit of life, ²all living organisms are made up of cells, and ³all cells are derived from preexisting cells
- All cells contain:
 - Nucleic acids** that store and transmit info
 - Proteins** that perform most of life's functions
 - Carbohydrates** that provide chemical energy, carbon, support, and identity
 - A **plasma membrane** that protects the cell from its surrounding external environment

II) OVERVIEW OF PROKARYA & EUKARYA

- Organisms are divided into 3 domains of life:
 - Bacteria** — **Prokaryotic**
 - Archaea** — **Prokaryotic**
 - Eukarya** — **Eukaryotic (includes plants, animals, algae, fungi)**
- Overview of the key characteristics of prokaryotic cells:**
 - No nucleus/nuclear envelope
 - DNA found in nucleoid
 - No membrane-enclosed organelles
 - Single, circular chromosome (in nucleoid)
 - DNA lacks histone proteins
 - Smaller in size
 - Simple flagella ("tails") and fimbriae (needlelike projections)
 - Smaller ribosomes synthesize proteins in cytoplasm
 - Complex, stiff cell walls that protect the cell from osmotic stress
 - Simple cytoskeleton (not always present)
 - Possess internal photosynthetic membranes that convert solar energy into chemical energy
- Overview of the key characteristics of eukaryotic cells:**
 - DNA found in Nucleus
 - Contains more than one chromosome (found in pairs)
 - Compartmentalized membrane-enclosed organelles
 - DNA is linear bonded to histone proteins
 - Larger in size
 - Cells multiply via cell division
 - Movement is facilitated by complex flagella & cilia
 - Large ribosomes that synthesize proteins
 - Simple cell walls (found only in plants/fungi, NOT animal cells)
 - Complex/diverse cytoskeleton found throughout volume of cell



III) STRUCTURE AND FUNCTION OF EUKARYOTIC CELLS

- Advantages of compartmentalization of organelles:**
 - Incompatible chemical reactions can be separated
 - Chemical reactions can become more efficient
- Nucleus:**
 - largest organelle in cell and highly organized
 - enclosed by nuclear envelope (double membrane with pore-like openings), which is supported by nuclear lamina
 - contains nucleolus (site of rRNA synthesis and ribosome assembly)
- Ribosomes:**
 - synthesize proteins
 - found in cytosol (called "free ribosomes") or attached to surface of endoplasmic reticulum (ER)

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Michael Hoelscher

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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