

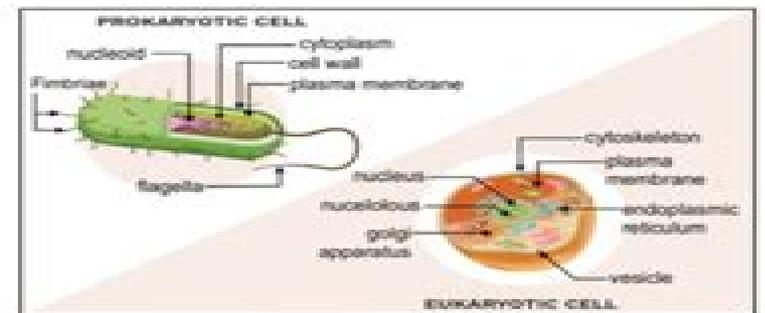
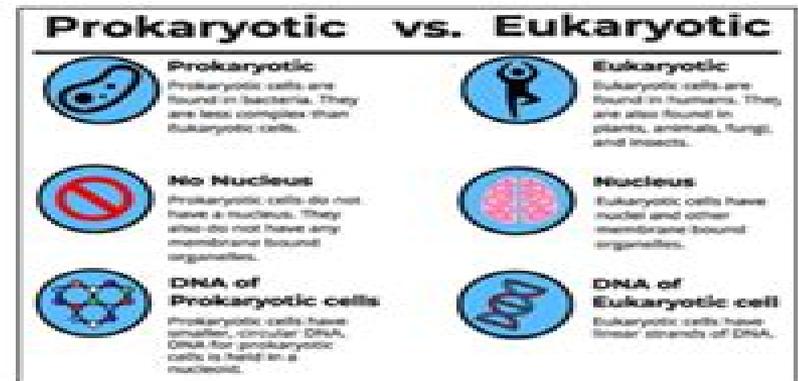
Chapter 7: Inside the Cell

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**
 - **Archaea**
 - **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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felix mendelssohn robert schumann franz liszt johannes brahms and other 19th century composers discovered and championed his works today schubert is ranked among the greatest composers in the history of western classical music and his work continues to be admired and widely performed

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dedicado a su música en ese momento el joven comenzó a componer y sus primeras obras fueron interpretadas por una orquesta de alumnos de a s internado de la ciudad donde fue violinista en 1813 se jubila para empezar a trabajar como

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Çalgılar piyano franz peter schubert 31 ocak 1797 viyana 19 kasım 1828 viyana avusturyalı besteci yaklaşık 600 ün üzerinde lied 9 senfoni ünlü bitmemiş senfoni nin de içlerinde bulunduğu operalar çok sayıda oda müziği ve piyano parçaları bestelemiştir

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