

# Cell: The unit of life

A living being have cell that a non living doesn't have

## What is a cell?

Unicellular organisms have independent existence and capable of performing the essential functions of life. Anton Von Leewenhoek described living cell & robert hook described first dead cell. Robert brown discovered nucleus.

## Cell theory!

In 1838, Mathias Schleiden, a german botanist concluded that plants are composed of many different cells. In 1839, Theodre Schwann, British zoologist discovered plasma memb. in animals, showed cell wall in plants & told that "animals & plants are composed of cells". In 1855, Rudolf Virchow explained *omnis cellula e cellula*.

## An overview of cell

Cell contain dense memb. bound structure,nucleus contains chromosomes,cytoplasm is main arena of cellular activities. Different chemical reactions in cell makes it living. Prokaryotic cell lacks memb. Bound cell organelles. Ribosomes are non memb. Bound & found in chloroplast,mitochondria & rough ER. In animal centrosome(non memb. bound) help in cell division. Sizes of different cells:- Mycoplasma-0.3um , RBC- 7um , bacteria- 3-5um , nerve cell- 1m (longest)



## Prokaryotic cells

(Bact., BGA, mycoplasma, PPLC)

They are smaller & multiply faster than eukaryotes. Types of bacteria are bacillus, cocci, spiral, vibrio. All have cell wall Except mycoplasma. They have naked genetic material, have genomic DNA (single chromosome/circular DNA), have PLASMID (small circular DNA outside genome) which gives resistance to antibiotics. They have inclusion bodies. And also have MESOSOME (infoldings of plasma membrane)

## Cell envelope & it's modification

It is present in most of bacterial cells. It includes glycocalyx (outer), cell wall (mid) and cell memb. (inner). Cell envelope acts as protective unit. Glycocalyx could be loose sheath called slime layer or maybe tough as capsule. Cell wall prevent from bursting or collapsing. BACTERIA CAN BE:- gram positive or gram negative on basis of different composition in cell envelope. In some prokaryotes, chromatophores (membranous extensions) are present which store pigments. Bacterial flagellum = filament + hook + basal body. Pili → elongated tubular structure made up of special protein. Fimbriae → bristle like fibres help to get attached to substratum.

### MESOSOME

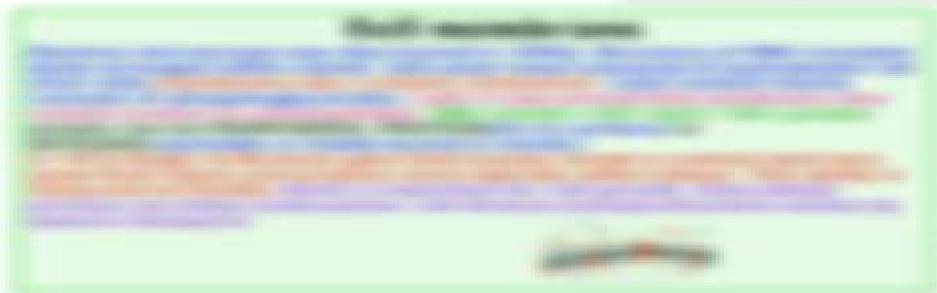
- \* may be in the form of vesicles, tubules, lamellae.
- \* cell wall formation.

## Ribosomes & inclusion bodies

In prokaryotes, ribosomes are associated with the plasma membrane (15nm x 20nm). It have 2 subunits 50s & 30s i.e. total 70s ribosomes. Several ribosomes attach to single mRNA to form polyribosome. Or polysome. These ribosomes translate mRNA to protein. INCLUSION BODIES- Several food material is stored in the form of it in cytoplasm. They are not bound with

## Eukaryotic cells

(Fungi, plants, animals)



# Life Science Cell Unit Study Guide

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### **Table of Contents Life Science Cell Unit Study Guide**

1. Understanding the eBook Life Science Cell Unit Study Guide
  - The Rise of Digital Reading Life Science Cell Unit Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Life Science Cell Unit Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Life Science Cell Unit Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Life Science Cell Unit Study Guide
  - Personalized Recommendations
  - Life Science Cell Unit Study Guide User Reviews and Ratings
  - Life Science Cell Unit Study Guide and Bestseller Lists

5. Accessing Life Science Cell Unit Study Guide Free and Paid eBooks
  - Life Science Cell Unit Study Guide Public Domain eBooks
  - Life Science Cell Unit Study Guide eBook Subscription Services
  - Life Science Cell Unit Study Guide Budget-Friendly Options
6. Navigating Life Science Cell Unit Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Life Science Cell Unit Study Guide Compatibility with Devices
  - Life Science Cell Unit Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Life Science Cell Unit Study Guide
  - Highlighting and Note-Taking Life Science Cell Unit Study Guide
  - Interactive Elements Life Science Cell Unit Study Guide
8. Staying Engaged with Life Science Cell Unit Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Life Science Cell Unit Study Guide
9. Balancing eBooks and Physical Books Life Science Cell Unit Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Life Science Cell Unit Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Life Science Cell Unit Study Guide
  - Setting Reading Goals Life Science Cell Unit Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Life Science Cell Unit Study Guide
  - Fact-Checking eBook Content of Life Science Cell Unit Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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