











Cell & Cell Cycle

- **Cell** was first discovered by Robert Hooke.
- Living cells were first observed by **Anton van Leeuwenhoek**.
- **Nucleus** was discovered by Robert Brown.
- **Cell theory** was proposed by **Schleiden and Schwann**.
- “**Omnis cellula e cellula**” was stated by **Virchow**.
- Smallest living cell is **Mycoplasma**.
- Ribosomes are the sites of **protein synthesis**.
- Mitochondria are the **powerhouse of the cell**.
- Lysosomes are called **suicidal bags**.
- **Smooth ER** synthesizes lipids and steroid hormones.
- **Rough ER** helps in **protein synthesis**.
- DNA replication occurs in **S phase of interphase**.
- **Metaphase** is the best stage to study chromosome morphology.
- Genes are segments of **DNA**.
- **Nucleotide** = Sugar + Base + Phosphate.
- **Nucleoside** = Sugar + Base.



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