

Cell Theory

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Cell Theory:

- ① all living organisms are made up of cells & their products
- ② cells are basic building unit of life.
- ③ new cells arise by division of pre-existing cells

Prokaryotes

- ① Primitive Nucleus
- ② generally small size
- ③ nucleus absent
nucleolus
- ④ single circular chromosome,
plasmid present
- ⑤ pili, fimbriae
flagella

Eukaryotes

- ① True Nucleus
- ② generally large size
- ③ nucleus present
nucleolus
- ④ very linear, no
plasmid
- ⑤ cilia, flagella

Plant-cell

- ① cell wall ✓
- ② chloroplast ✓
- ③ centriole ✗
- ④ vacuole is large
present at center
- ⑤ Nucleus present
at side

Animal cell

- ① cell wall ✗
- ② chloroplast ✗
- ③ centriole ✓
- ④ vacuole is
small
- ⑤ Nucleus present
at centre