

Nine organelle jobs

Match a named structure to one bounded job.

A role here is useful, not a full account of that organelle.

1 Nucleus

Contains most DNA in a typical eukaryotic cell.

2 Ribosome

Assembles protein; is not membrane-bound.

3 Mitochondrion

Supports aerobic respiration / ATP supply.

4 Rough ER

Makes / processes many proteins for export or membrane.

5 Smooth ER

Lipid synthesis; lacks attached surface ribosomes.

6 Golgi apparatus

Modifies, sorts and packages many ER products.

7 Lysosome

Breakdown and recycling in many animal-cell models.

8 Vacuole

Large central plant version helps water balance.

9 Chloroplast

Photosynthesis in photosynthetic plant cells.

Some secreted proteins: ribosome → rough ER → Golgi → out.