

Keywords and Phrases for Concept Map on Review of the Eukaryotic Cell

2X9+2 arrangement of sliding microtubules; surrounded by a sheath

3-20 flattened and stacked sac-like structures

Active transport

Algae, plants cells, fungi

Contains enzymes for various metabolic reactions

Determines what goes in and out of the bacterium

Digest materials that enter by endocytosis

ER with no ribosomes attached

ER with ribosomes attached

Fluid phospholipid bilayer

Give shape to cells lacking a cell wall

Motility

Movement of organelles within the cell

Passive diffusion

Produce ATP through oxidative phosphorylation

Protein synthesis; production of new membrane; transport of these proteins and membrane to other locations within the cell

Protozoa, animal cells

Ribosomes

Short; numerous

Sort proteins and lipids received from the ER; modify certain proteins and glycoproteins; package these molecules into vesicles for transport to other parts of the cell or secretion from the cell

Surrounded by two membranes; inner membrane forms interconnected stacks of disk-like sacs called thylakoids

The genetic material of the cell composed of genes that code for protein synthesis

Tubulin microtubules, actin microfilaments, polypeptide intermediate filaments

Workbench for protein synthesis

