

SBI3C0: Cell Part and Function Chart

Cell Part	P, A or Both	Function - brief description
Extracellular fluid	Both	-water based solution outside the cell
Cytosol	Both	-water based solution where organelles are suspended inside the cell
Cell membrane	Both	- controls movement into and out of the cell and holds contents of cell together
Cell wall	P	- provides plants rigidity while allowing materials to pass through
Nucleus	B	- the control centre of the cell (the brain)
Nuclear envelope	B	- separates nucleus from the cytoplasm
Nucleoplasm	B	- mixture of chemicals that stores information used by cell organelles to carry out their function.
Ribosomes	B	- produce proteins. Float in the cytoplasm or attached to membranes.
Rough E.R	B	- system of membraneous tubes and canals with attached ribosomes where proteins are produced.
Smooth E.R	B	- system of membraneous tubes and canals where fat molecules are produced. (no ribosomes are attached)
Vesicles	B	- stores the products of the ER and carry products to golgi apparatus. Releases contents to the extracellular fluid.
Golgi apparatus/body	B	- chemically changes the fats and proteins produced in the ER and packages them into vesicles for transport outside of the cell.
Lysosomes	A	- digest food particles and destroy dangerous microorganisms.
Mitochondria	B	- where cellular respiration occurs and the cells use the compounds as a source of energy
Chloroplasts	P	- contains chlorophyll and carries out photosynthesis
Vacuoles	P	- where turgor pressure occurs in plant cells.