

Complete the following table to fully describe the various organelles

Cell Structure	Location	Function
Cell Membrane	External boundary of the cell	Confines cell contents; regulates entry and exit of materials
Lysosome	Throughout cytoplasm	To digest invading cells or to break down old organelles
Mitochondria	Scattered throughout cell	Controls release of energy from foods; forms ATP
Golgi apparatus	Within cytoplasm	To process lipids and proteins and 'package' them for exocytosis
Centrioles	Two rod-shaped bodies near the nucleus	'Spin' the mitotic spindle
Smooth ER	Within cytoplasm	Synthesises lipids
Nuclear pores	Within the nuclear membrane	To allow mRNA to move into the cytoplasm
Rough ER	Flattened membraneous sacs located near the nucleus	Synthesises proteins
Ribosomes	Attached to membranes or scattered in the cytoplasm	Synthesise proteins
Cilia	Hair like structures on the surface of some animal cells	Act collectively to move substances across the cell surface in one direction
Microtubules	Throughout cytoplasm; part of cytoskeleton	Contractile protein (actin); moves cell or cell parts; core of microvilli
Nucleolus	Within the nucleus	Involved in the synthesis of ribosomes
Nucleus	Large body situated towards the centre of the cell.	Contains genetic information