

Biology: Cell Structure I Nucleus

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All cells have three things in common, no matter what type of cell they are. The nucleus contains DNA or genetic material. DNA dictates what the cell is going to do and how it will do it. There are two broad categories of cells. The first category is eukaryotic cells. They do n't have a nucleus or membrane-enclosed organelles. The second category is prokaryotic. The mitochondrion is an organelle that is the powerhouse for both animal and plant cells. During a process called cellular respiration , the mitochondria make ATP molecules that provide the energy for all of the cell 's activities. Meanwhile, the cell maintains its shape through a cytoskeleton.