

## Eukaryotic Cells

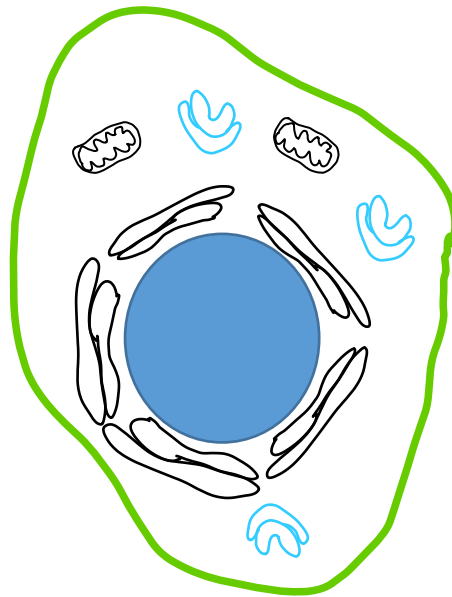
1. Eukaryotic cells have internal \_\_\_\_\_ resulting in \_\_\_\_\_ and their DNA is enclosed in a \_\_\_\_\_. Also, the DNA in a eukaryote is **associated** with \_\_\_\_\_ proteins.

2. Below is a rough representation of a pancreatic \_\_\_\_\_ cell. Add **straight lines** to the correct structures and then complete the labels and annotations. Circle the imperfections in the diagram.

\_\_\_\_\_: site of \_\_\_\_\_ respiration. It has \_\_\_ membranes.

\_\_\_\_\_: has \_\_\_\_\_ ribosomes which will \_\_\_\_\_ proteins that will \_\_\_\_\_ the cell.

\_\_\_\_\_ ribosomes (\_\_\_ S): \_\_\_\_\_ proteins that will \_\_\_\_\_ the cell.



\_\_\_\_\_ membrane: controls the \_\_\_\_\_ and \_\_\_\_\_ of many substances.

\_\_\_\_\_ \_\_\_\_\_: site of \_\_\_\_\_ of proteins.

\_\_\_\_\_ : the region containing the DNA which is associated with \_\_\_\_\_.

\_\_\_\_\_ : site of many \_\_\_\_\_ reactions, including \_\_\_\_\_ respiration.

3. \_\_\_\_\_ cells are also eukaryotic. They have three additional structures: the \_\_\_\_\_, \_\_\_\_\_, which helps give structural support as it is made of \_\_\_\_\_, and \_\_\_\_\_ which are needed for \_\_\_\_\_ as these organisms are autotrophs. There is also a large \_\_\_\_\_, which contains the cell sap. The cell you should be able to draw from this type of organism is called a \_\_\_\_\_ cell.

4. The actual size of this cell is 15  $\mu\text{m}$ . Work out the magnification of the diagram: