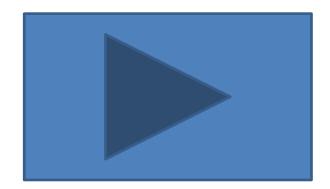
#### Cell Biology

#### Lesson 1 – Cell Structure

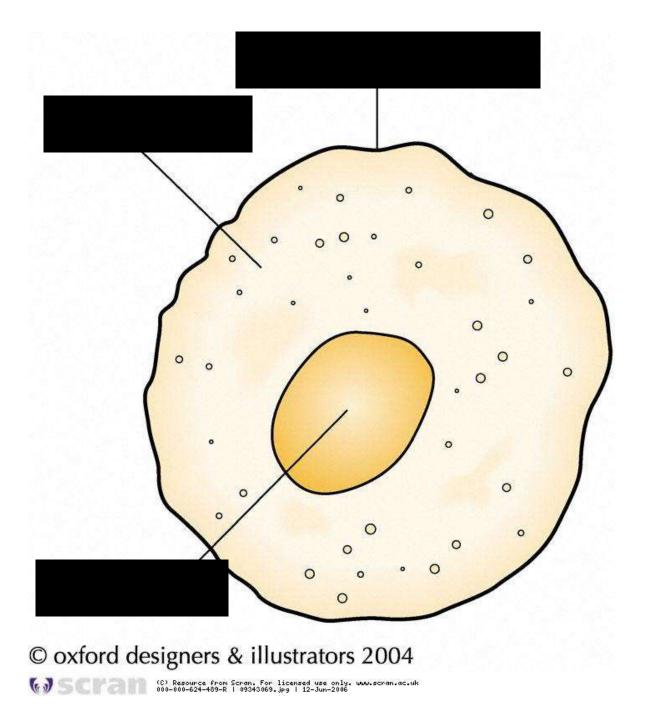


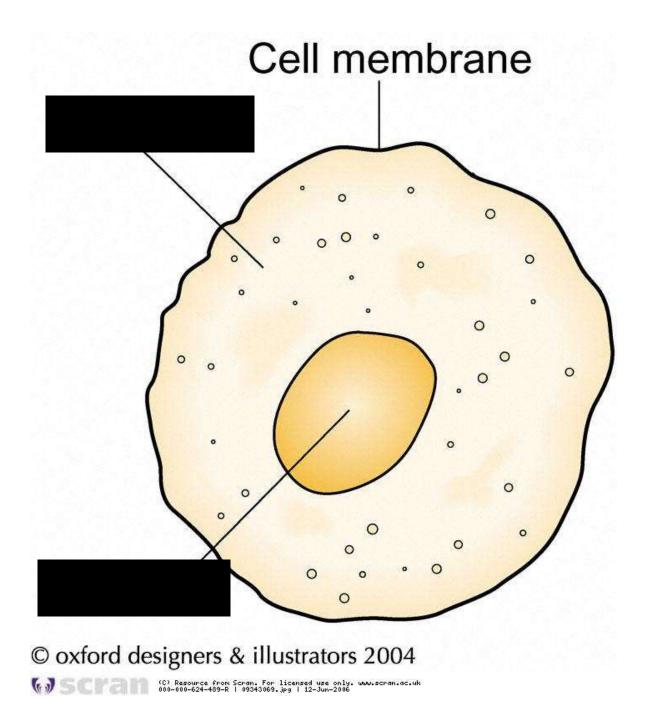
### <u>Revision</u> – what you should already know !

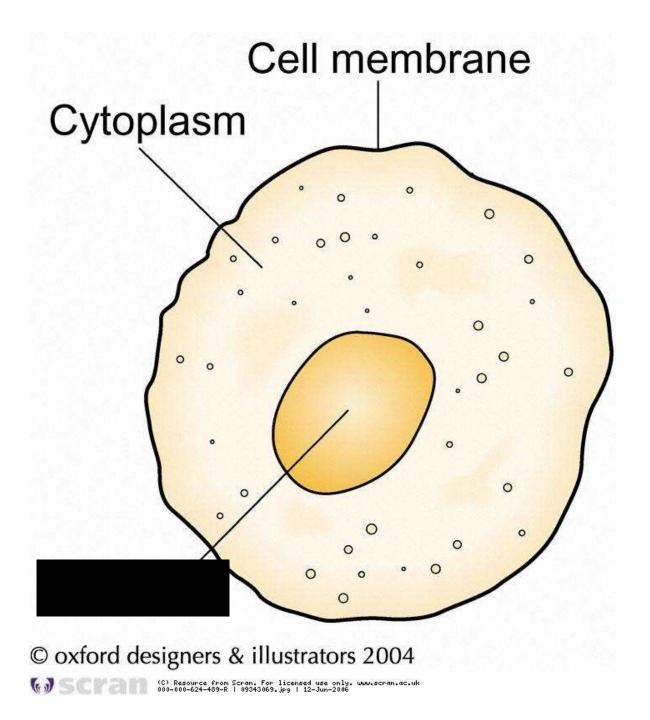
- Collect show me board and work partner.
- Draw a diagram of a labelled plc animal cell

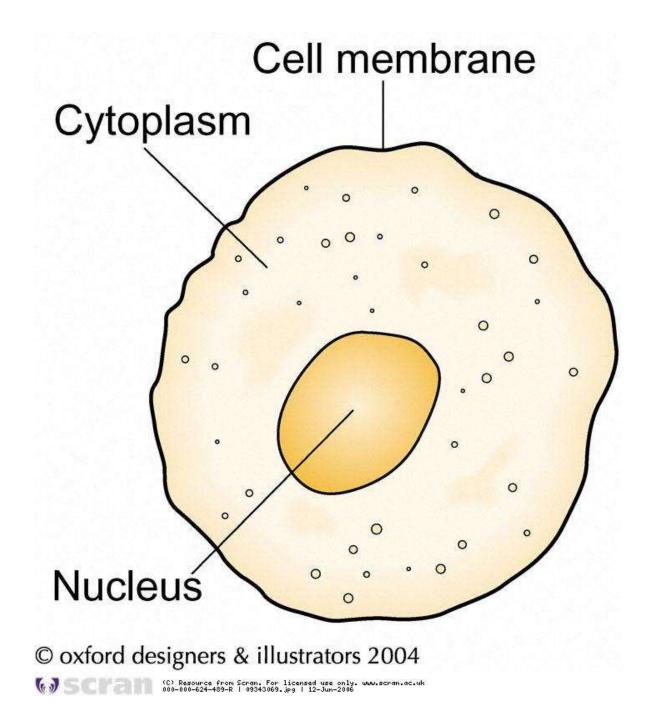


- Can you remember the functions of each labelled structure ?????
- 3 labels for an animal cell
- 6 labels for a plant cell



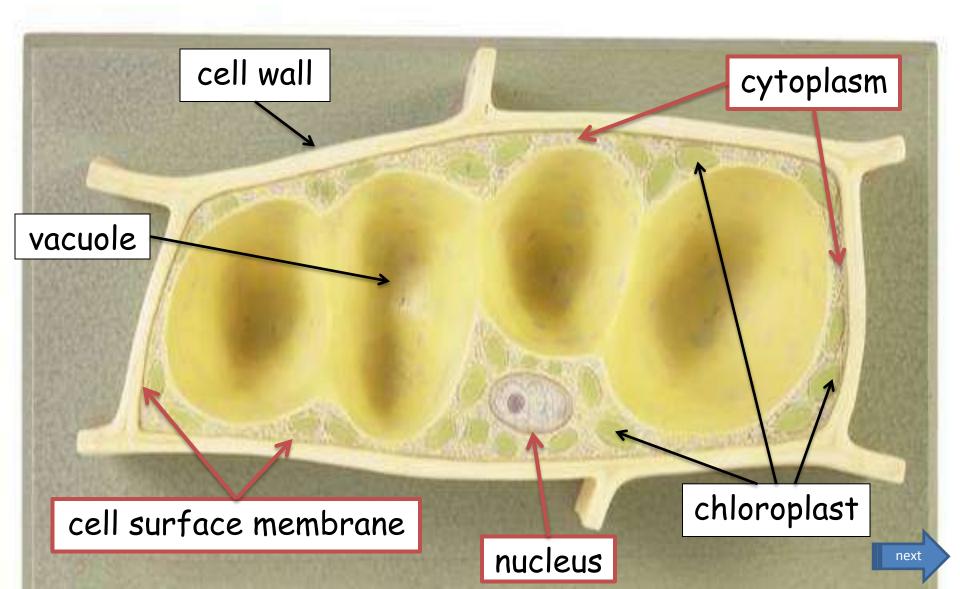






The ones in red we have already looked at in the animal structure slides

#### Structure of a plant cell



#### **Chloroplasts**

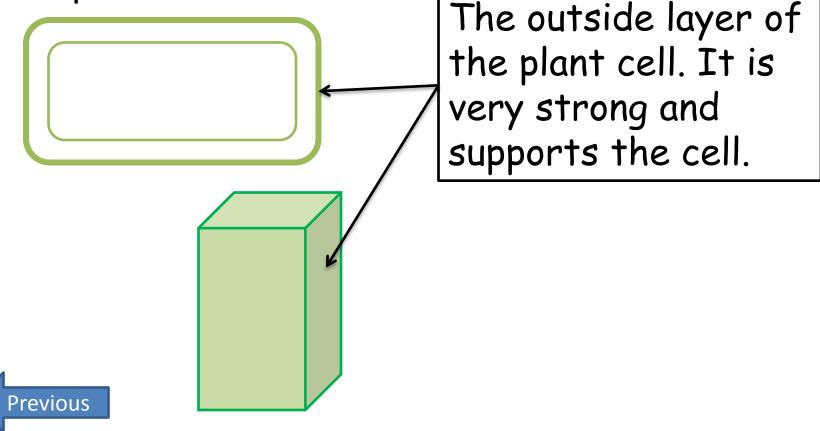


Are discs that contain the green pigment <u>chlorophyll</u>. They make **food** for the plant

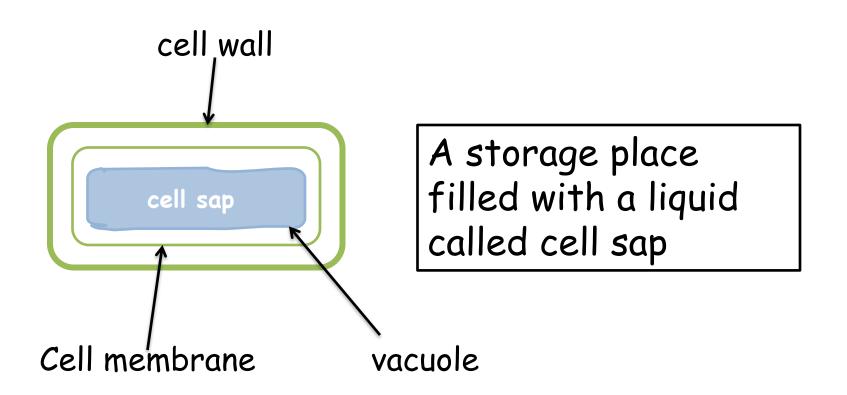


#### Cell Wall

Plant cells have straighter edges and are boxed shaped

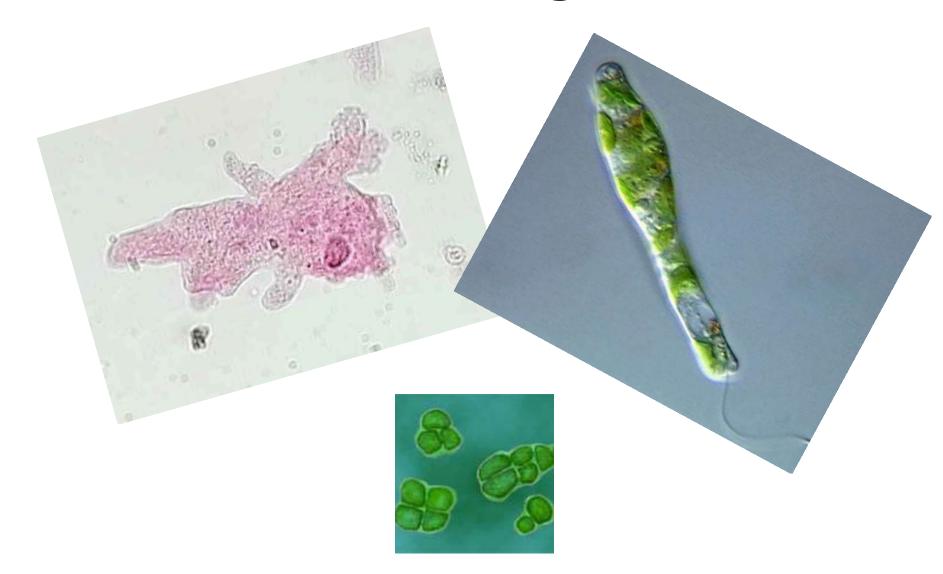


#### Vacuole



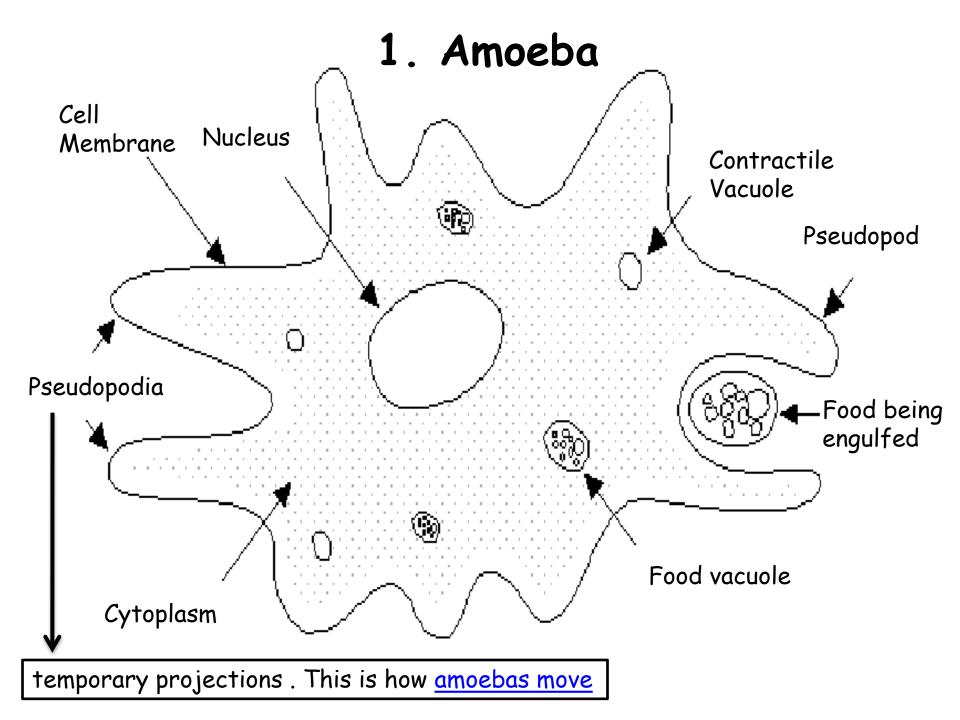


## Unicellular Organisms

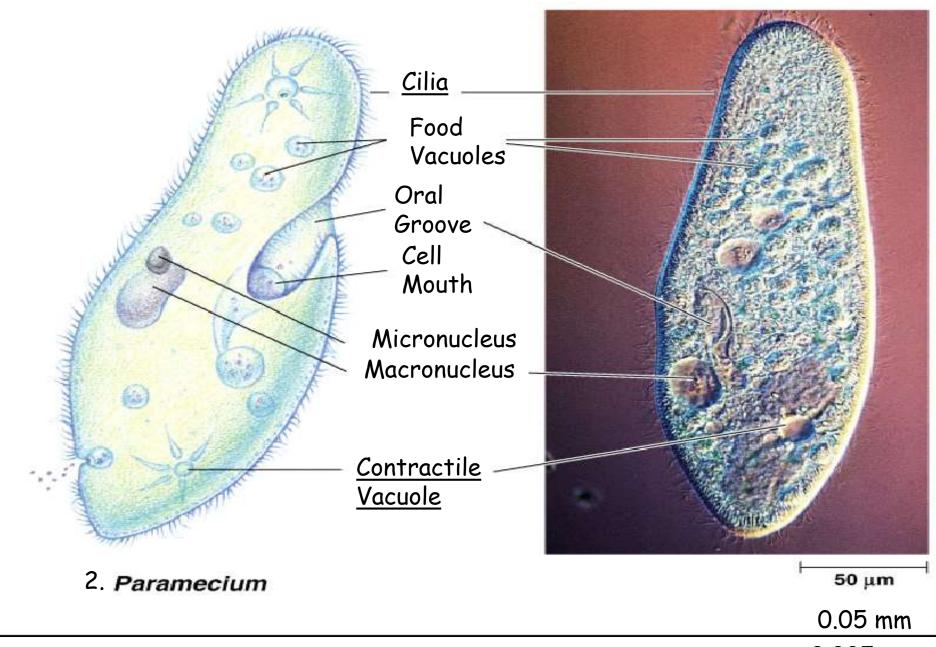


Most living organisms are composed of millions of cells. They are multicellular.

- Some living organisms are <u>uni</u>cellular which means that they only consist of <u>one</u> cell.
- This means that this **single cell** will be able to show all the characteristics of a living organism.
- metabolism, maintain homeostasis, grow, respond, reproduce, move, excrete.
- Examples of unicellular organisms include:
  - 1. amoeba
  - 2. paramecium
  - 3. euglena
  - 4. Pleurococcus

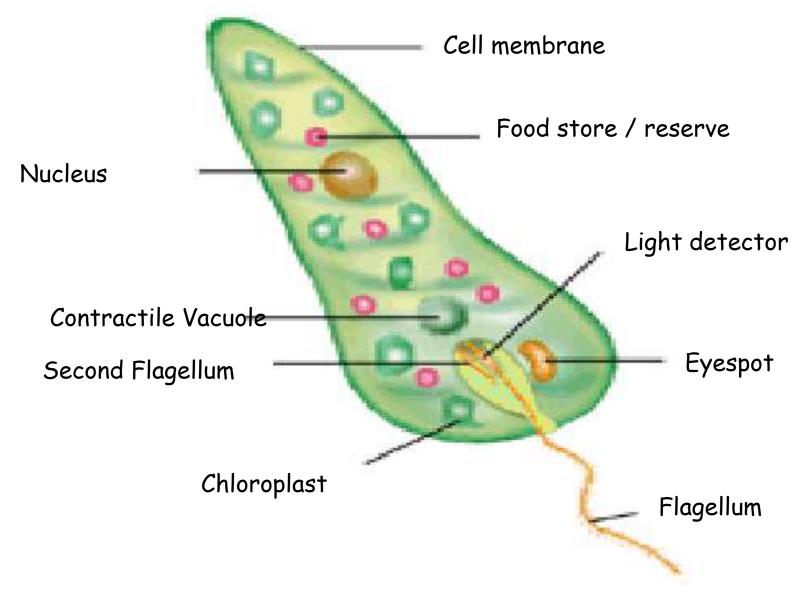


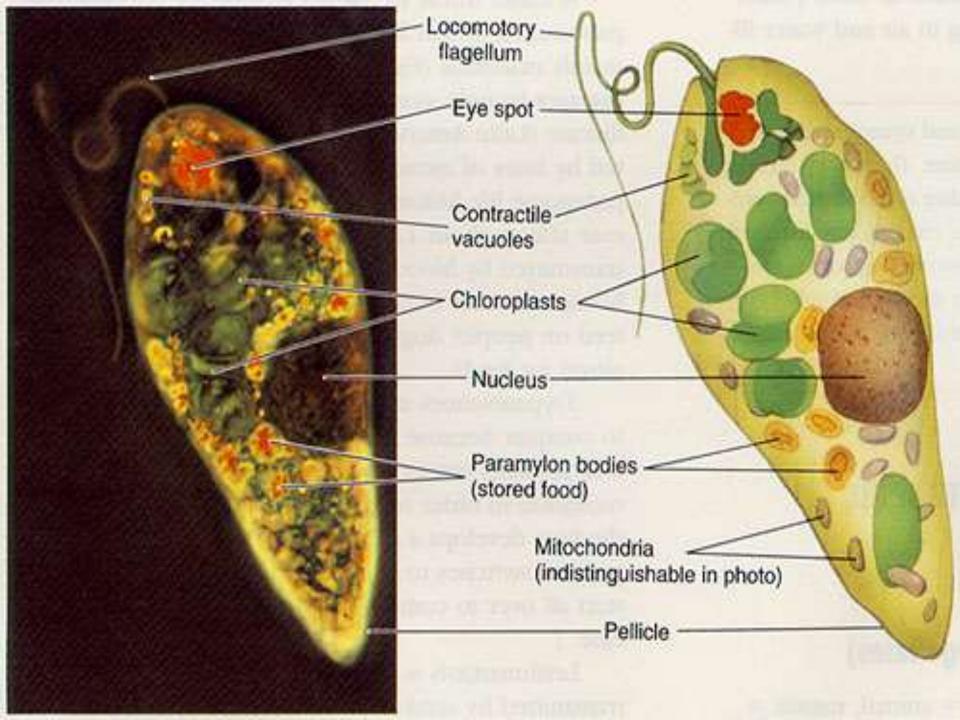




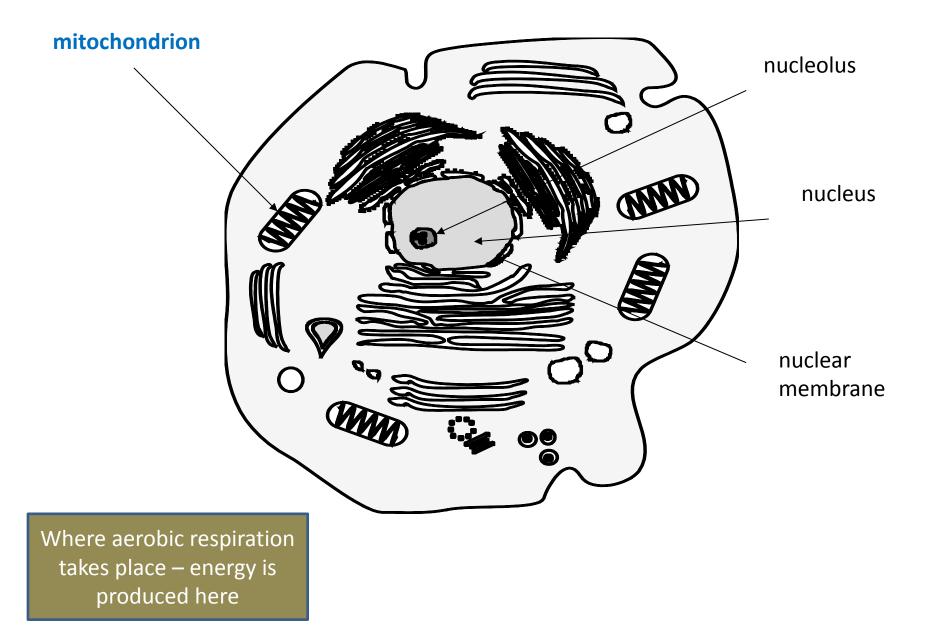
0.005 cm

Euglena show plant and animal features.

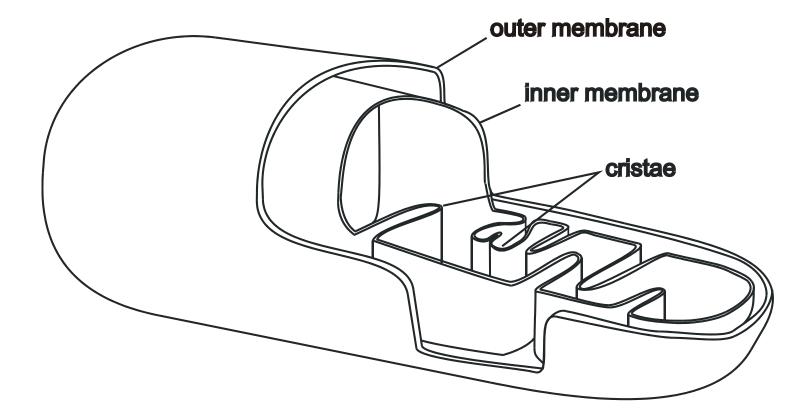






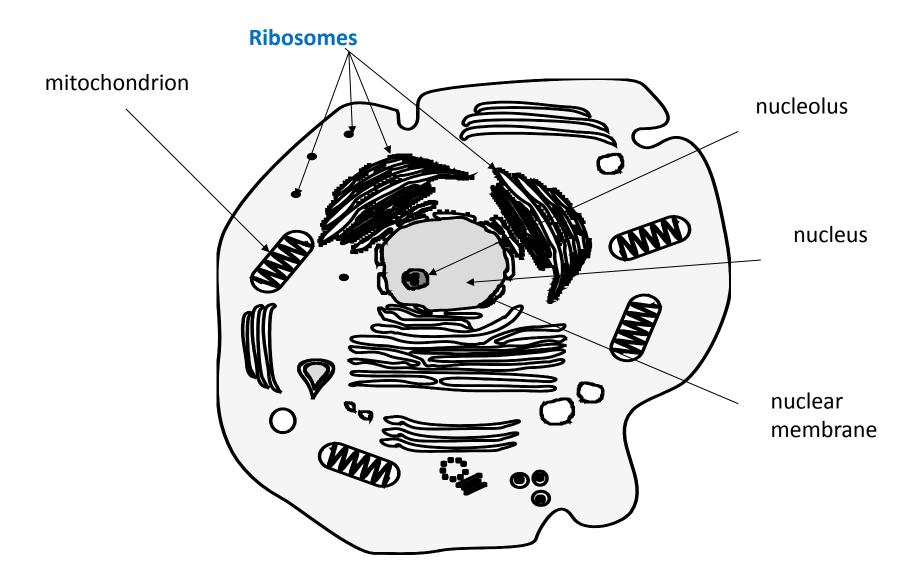


#### **STRUCTURE OF A MITOCHONDRION**





## AUGATIANI



# Ribosomes

#### <u>Ribosomes</u>

- They produce proteins.
- Here is a list of all the things composed of protein:
- 1. Hormones (Oestrogen, Progesterone, Testosterone, ADH, Growth hormone...)
- 2. Cell Membranes- important in making new cells and repairing damaged cells
- 3. Enzymes control all chemical reactions
- 4. Antibodies to fight infection
- 5. Hemoglobin in red blood cells...

#### Activity 1

• Page 4 pupil booklet