# The Cell (Parton 26 "Function and structure of organelles in eukaryotic cells"

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## Smooth endoplasmic reticulum (SEC) UK

Organised membrane sotes, similar to the RER, but more tubular and without collached (b250mes.

#### Functio

Lipid synthesis

Involved in the detoxification of the organism (degradation) of toxic substances and/or drugs such as alcohol

Involved in calcium storage

➡ In liver cells: REL is found in very abundant form.

### Golgi apparatus

- Function ➡ Reception and troffical modification of proteins and lipids: Once the prot
  - Once the proteins have been modified, part of them are distributed in transport vesicles to the following destinations:
  - To other organelles that are part of the endomembrane a) system.
  - b) Exported outside the cell.
  - Cell surface to form part of the plasma membrane.

#### Mitochondria

These are sac-like or cylindrical organelles found in most eukaryotic cells. (figure sale.
It is the site where most of the cellular respiration reactions or where and where energy is obtained from glucose or liphs.

➡ They are surrounded by a double membranes, which form two distinct spaces within the organelle (one internal and one external): The intermembrane space and the mitochondrial matrix.

The mitochondrial inner membrane folds to form mitochondrial ridges.

The intermembrane space is the space formed between the inner and outer mitochondrial membrane.