

PLASMOLYSIS

EG

PLASMOLYSIS

CELL MEMBRANE CONTRACTS FROM PLANT CELL WALL

PLASMOLYSIS

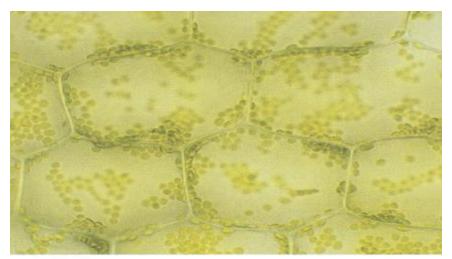


EXAMPLE TURGOR PRESSURE **PLASMOLYSIS** ELODEA

ALABAMA LAKE OR ALABAMA POND ELODEA





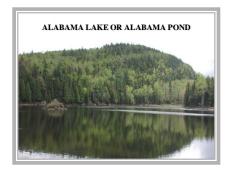


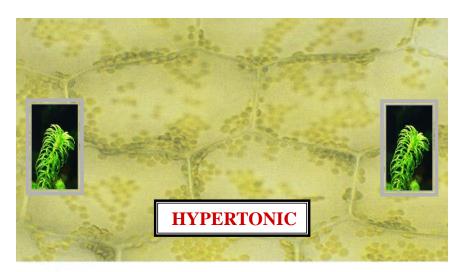
ELODEA



0

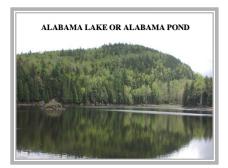
HYPOTONIC





ELODEA

HYPOTONIC

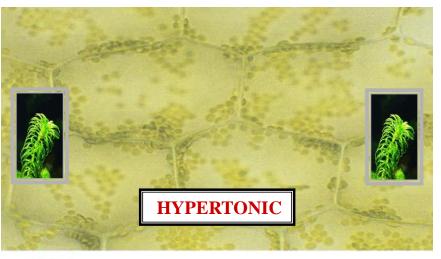




OSMOSIS

HYPOTONIC

OSMOSIS

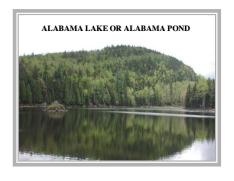


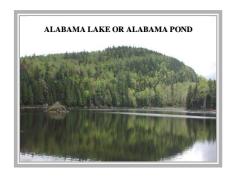
ELODEA

OSMOSIS

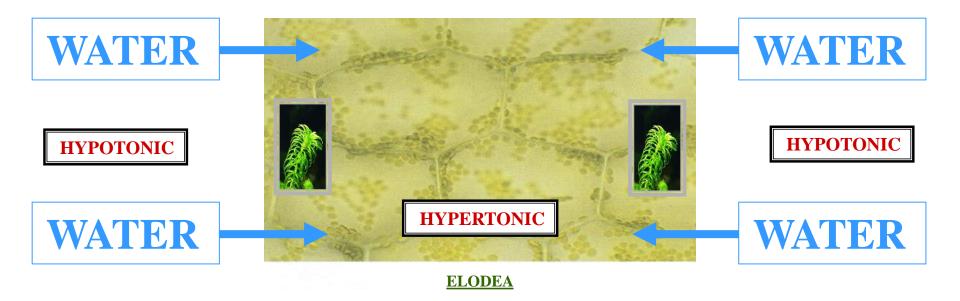
HYPOTONIC

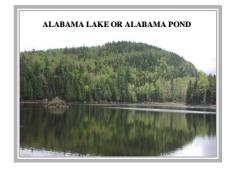
OSMOSIS

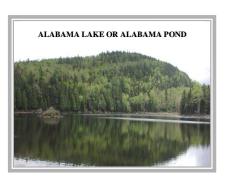




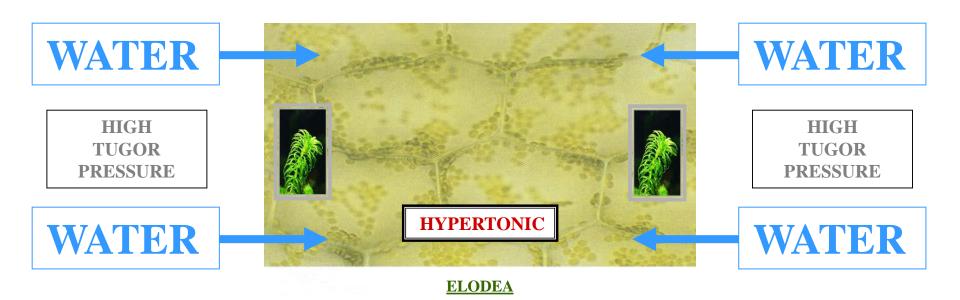


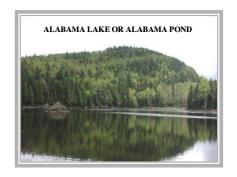


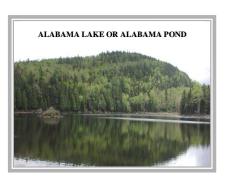




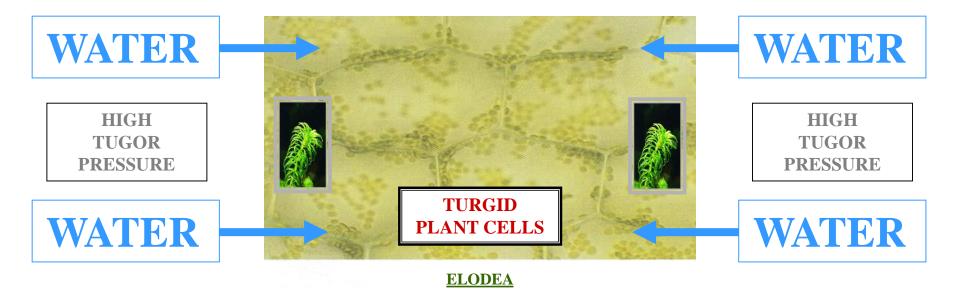


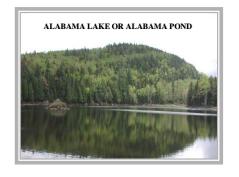


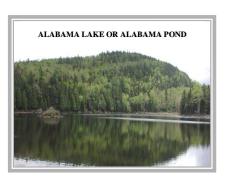








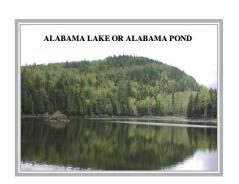




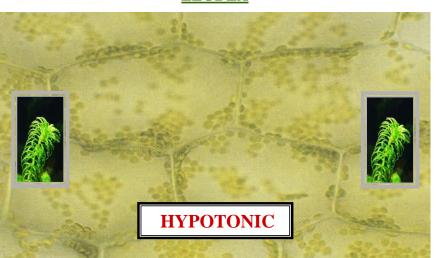




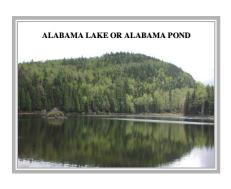
ELODEA



HYPERTONIC



HYPERTONIC





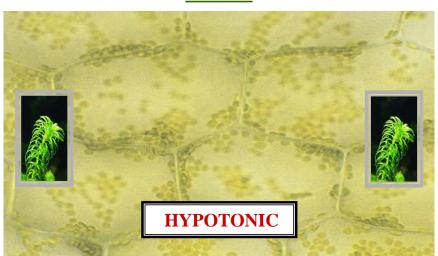


ELODEA

OSMOSIS

HYPERTONIC

OSMOSIS

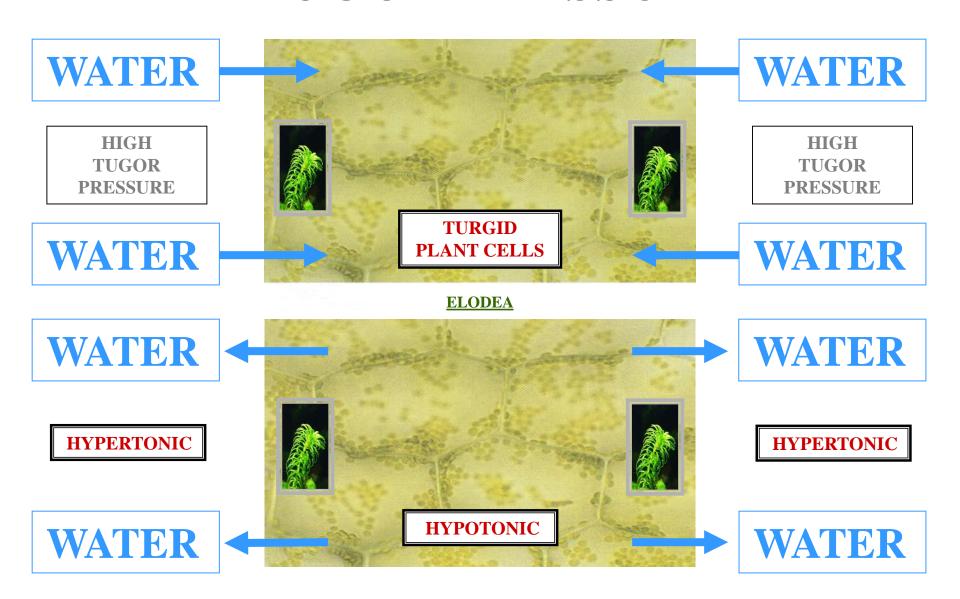


OSMOSIS

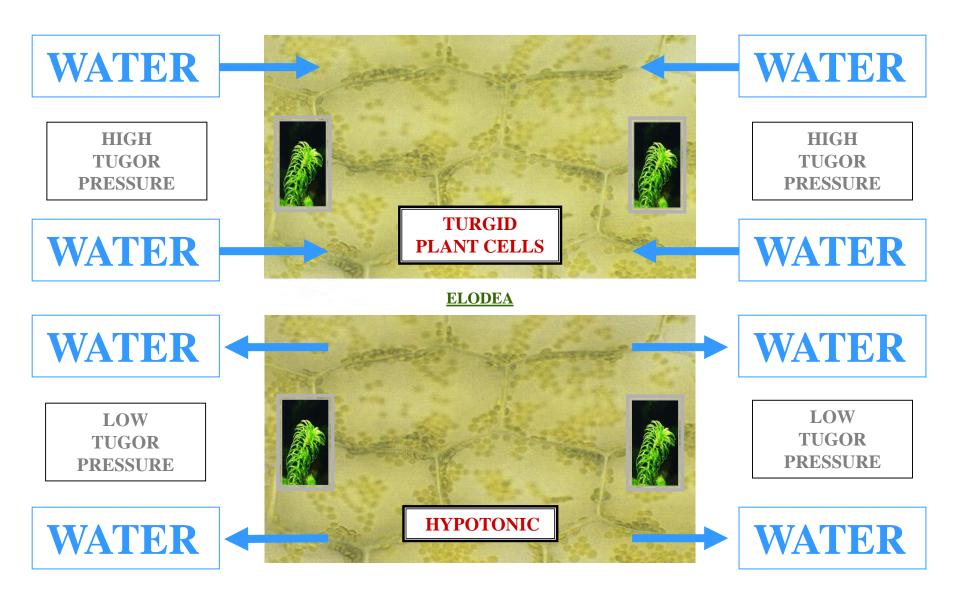
HYPERTONIC

OSMOSIS

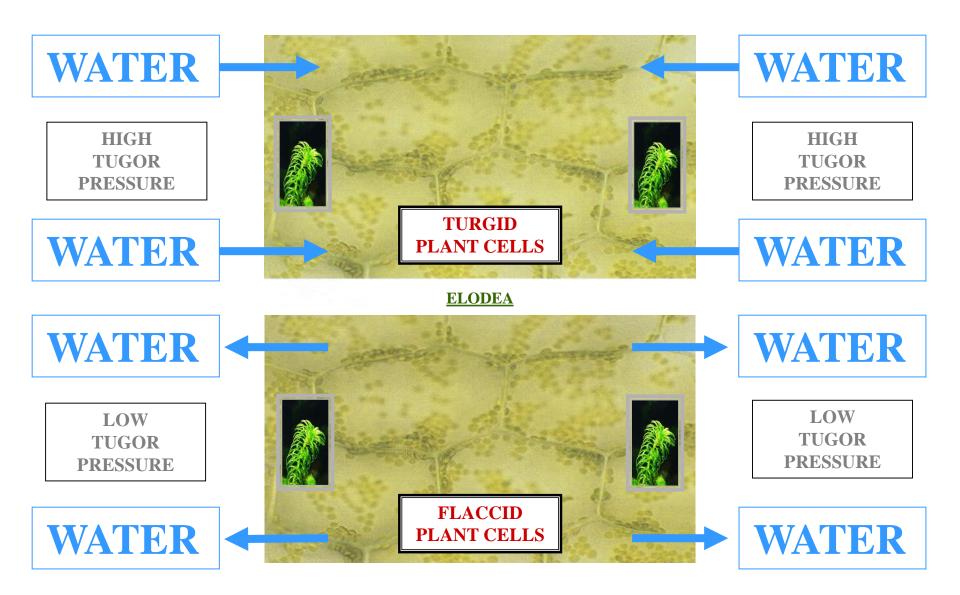




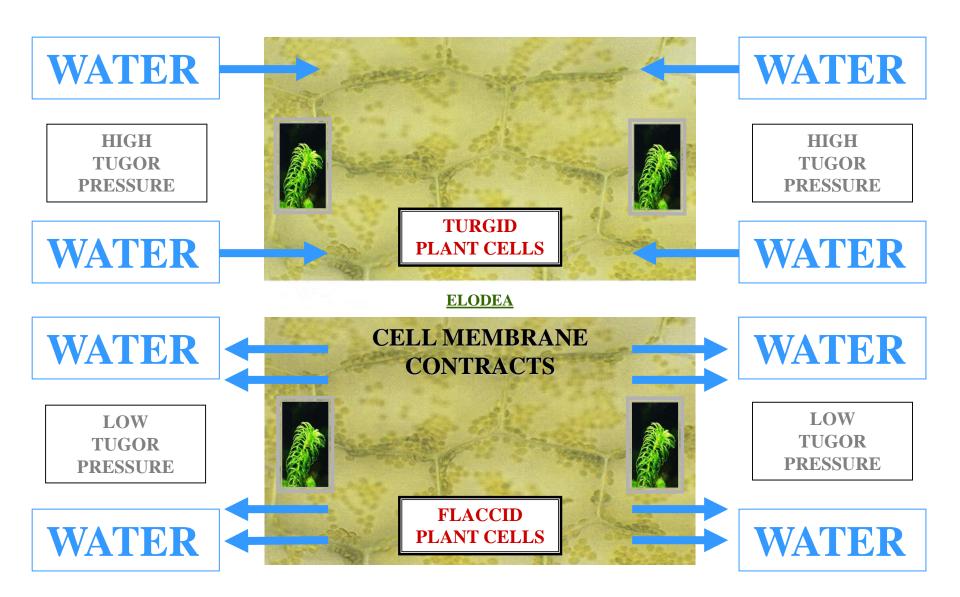




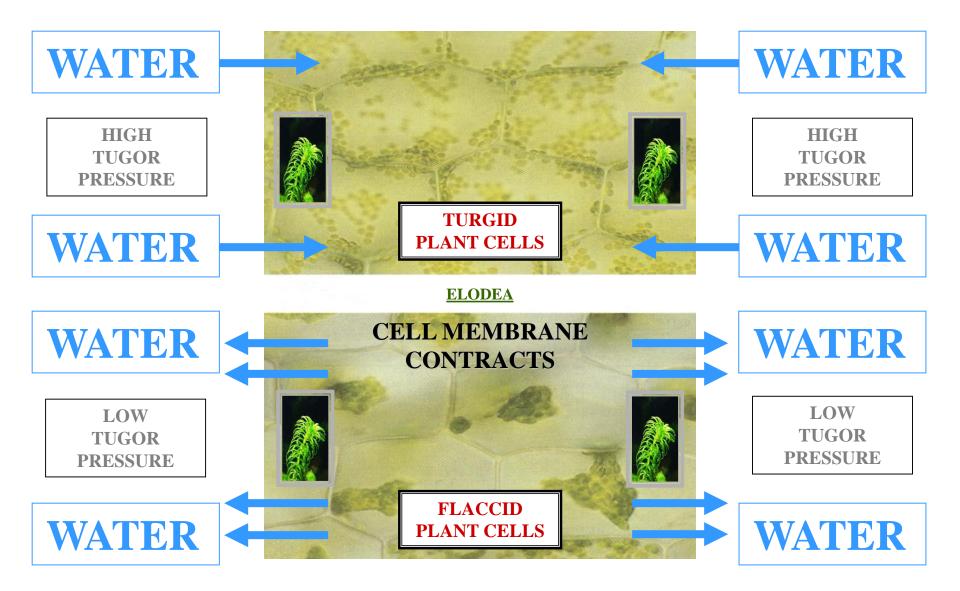




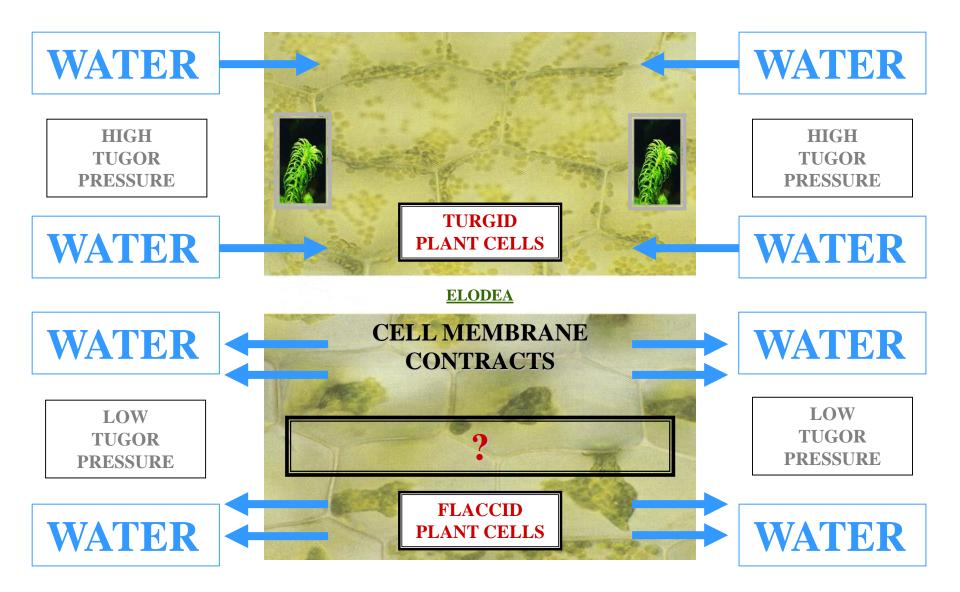




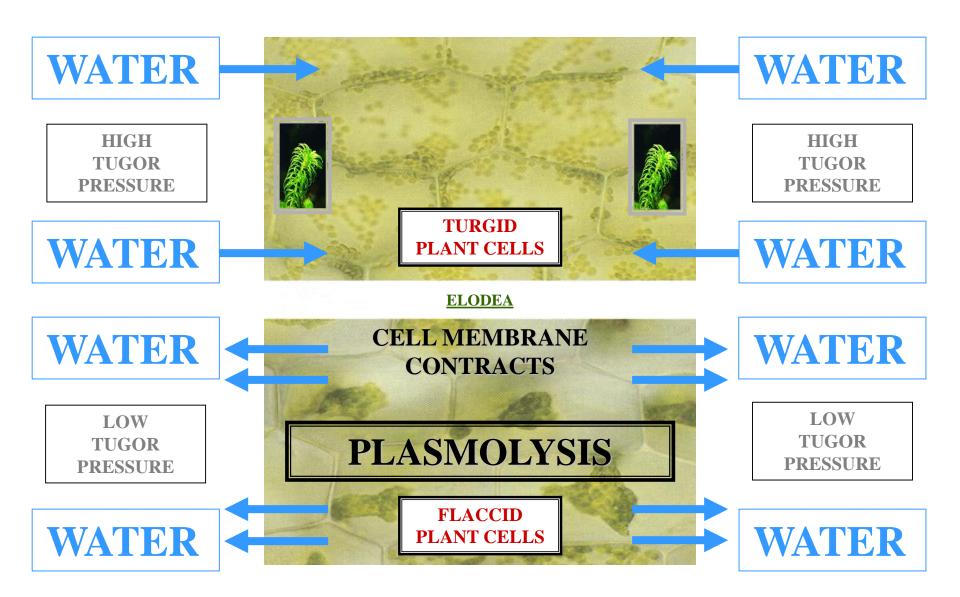






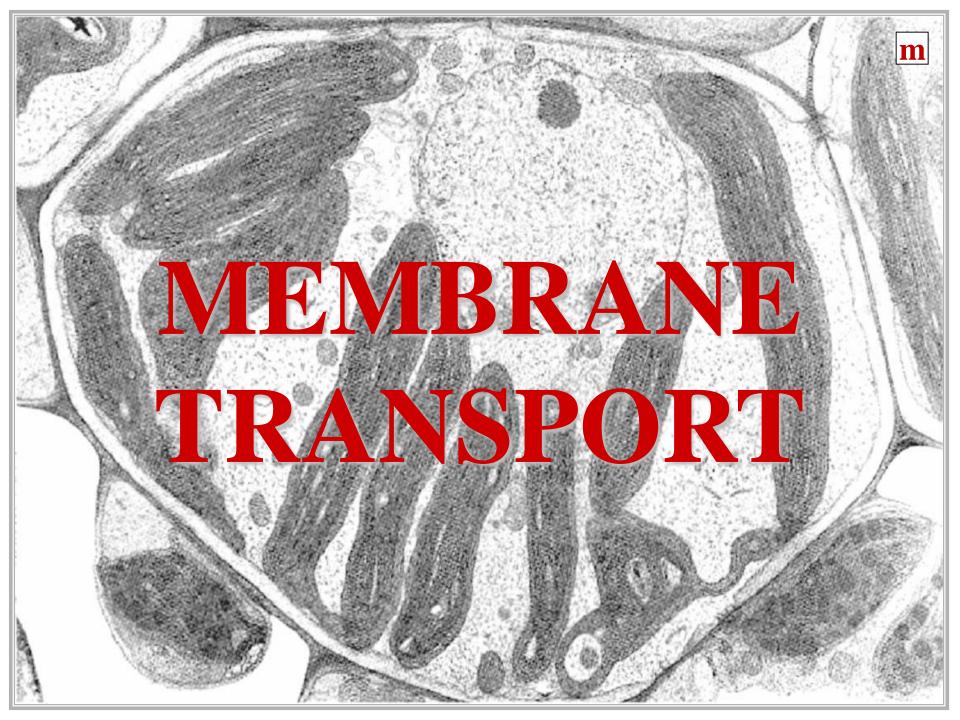


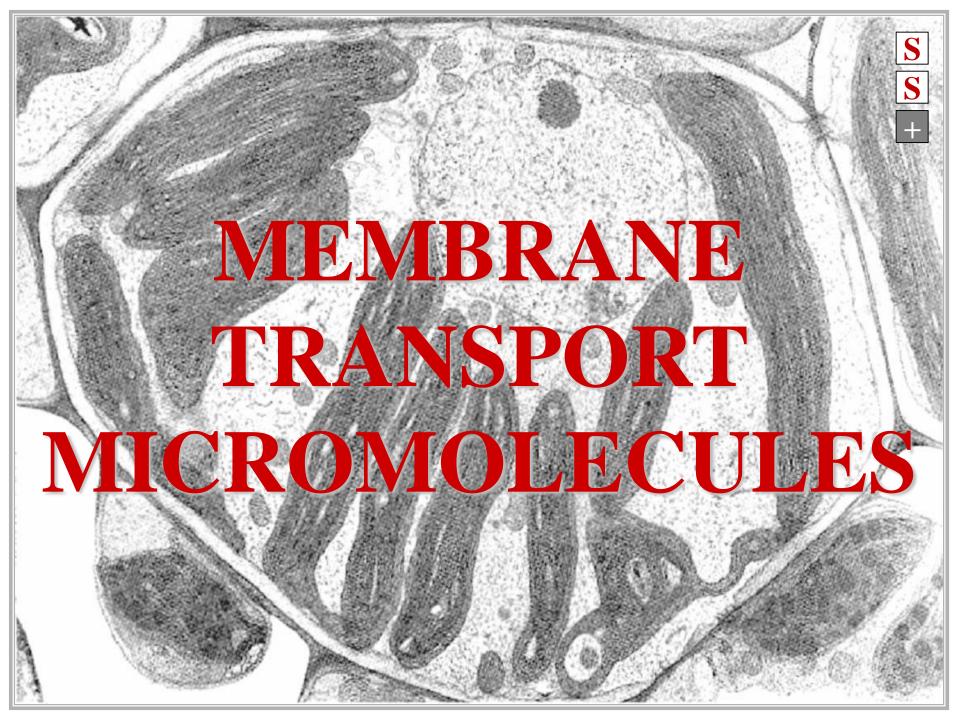
Λ

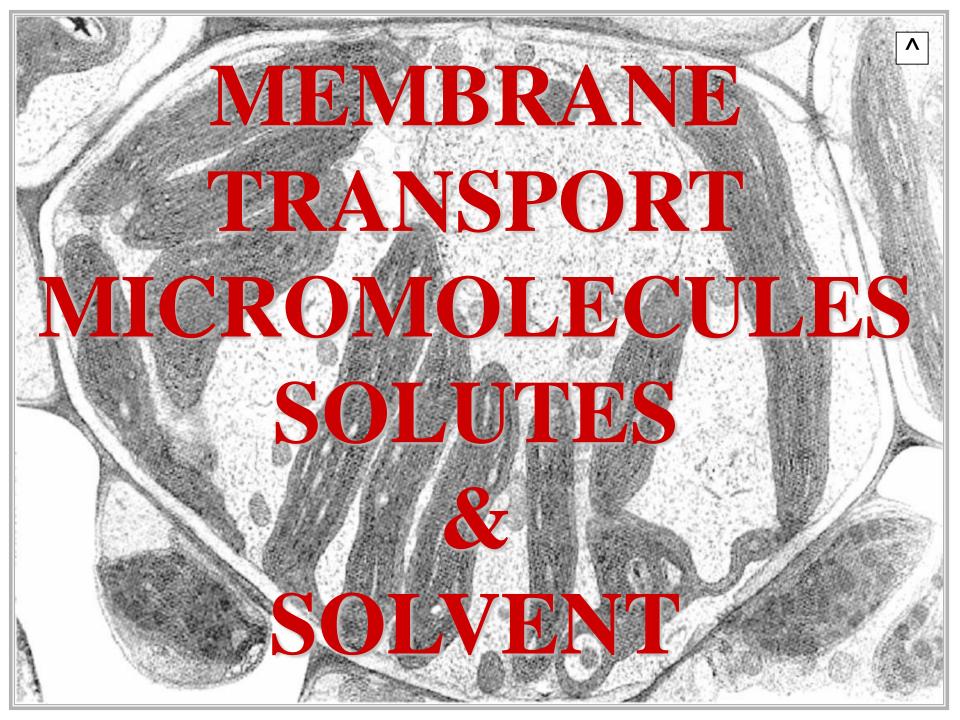


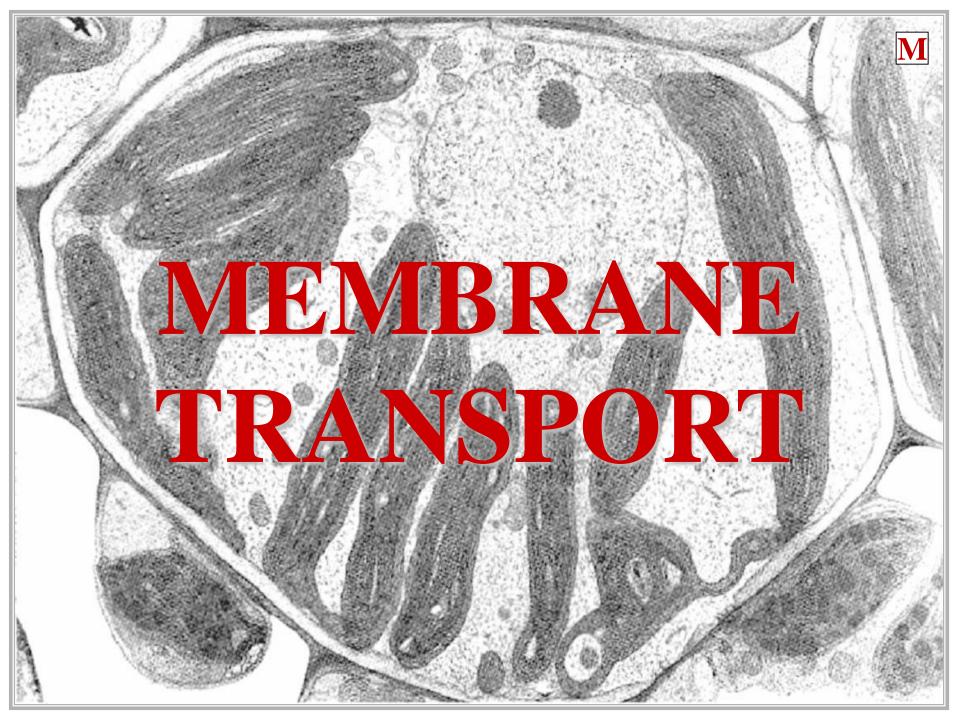


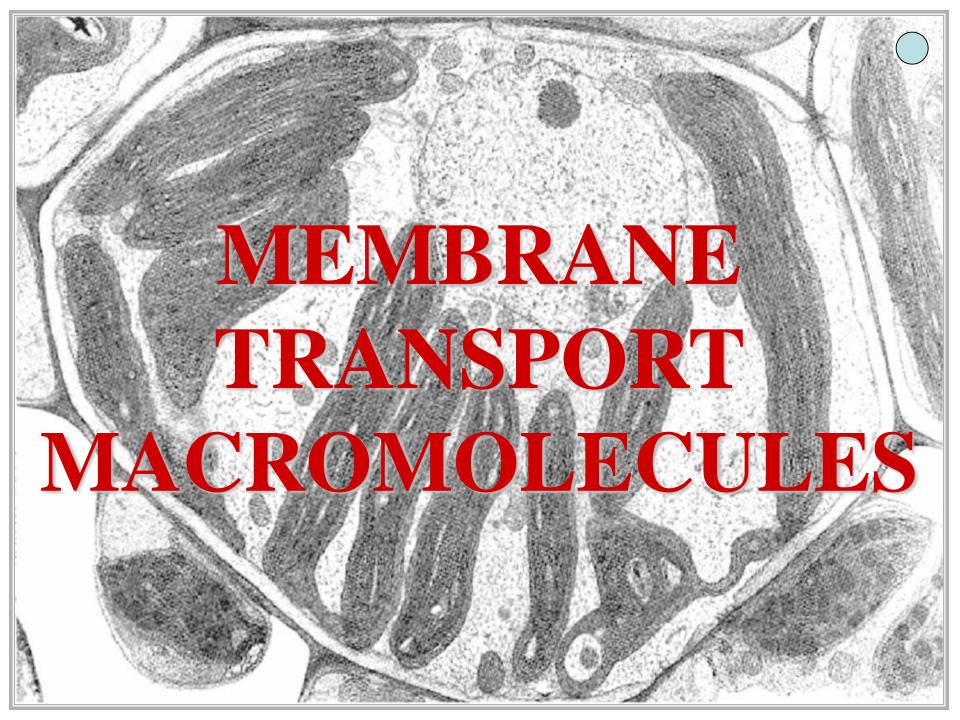
EXOCYTOSIS VS ENDOCYTOSIS



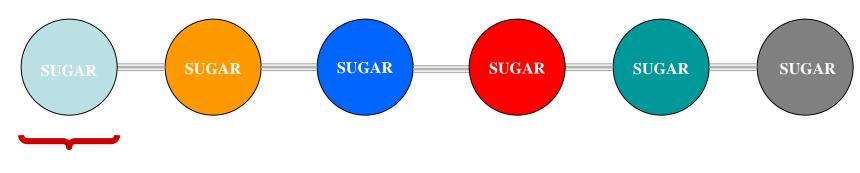








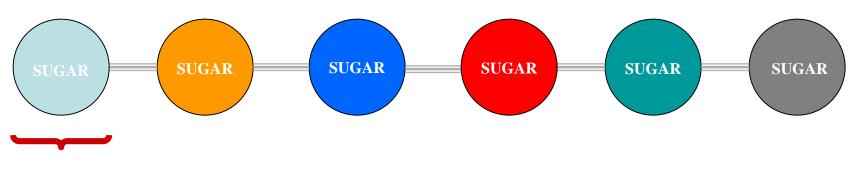
MEMBRANE TRANSPORT MACROMOLECULE



MONOSACCHARIDE = **BOND**

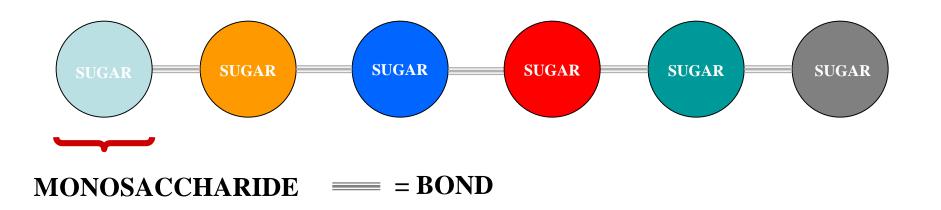


MEMBRANE TRANSPORT MACROMOLECULE



MONOSACCHARIDE = **BOND**

MEMBRANE TRANSPORT MACROMOLECULE



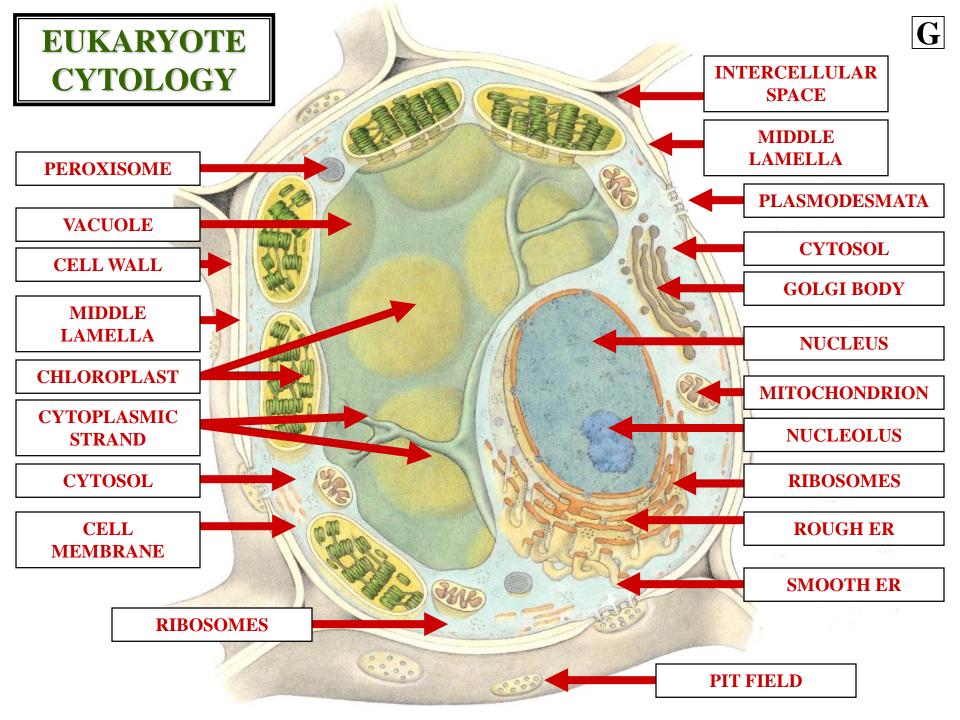
POLYSACCHARIDE

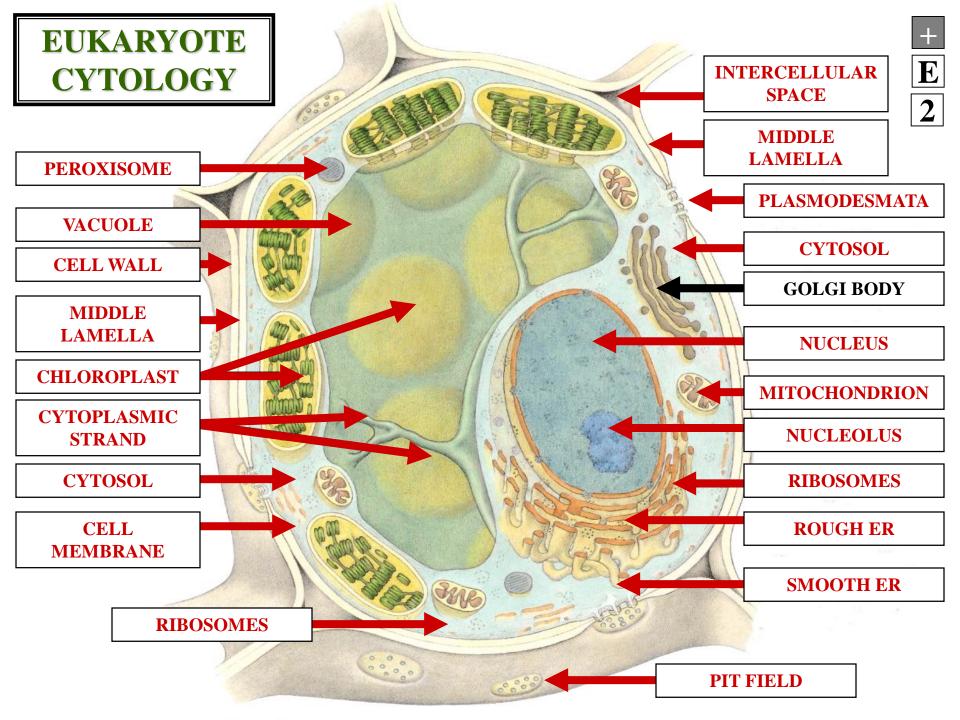
EXTERNAL PASSAGE





EXOCYTOSIS



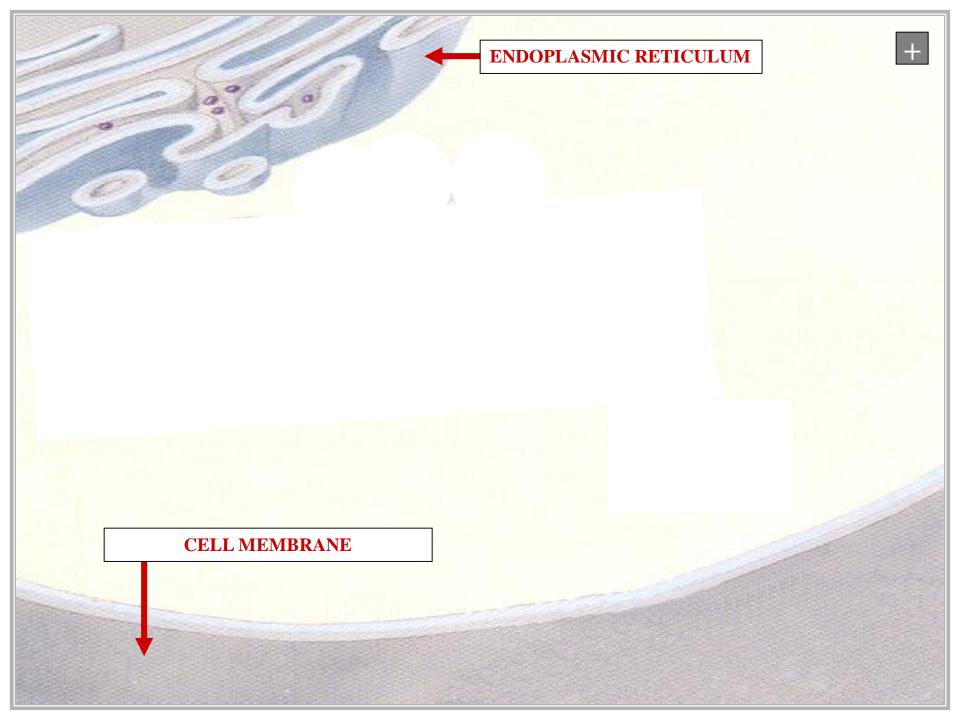


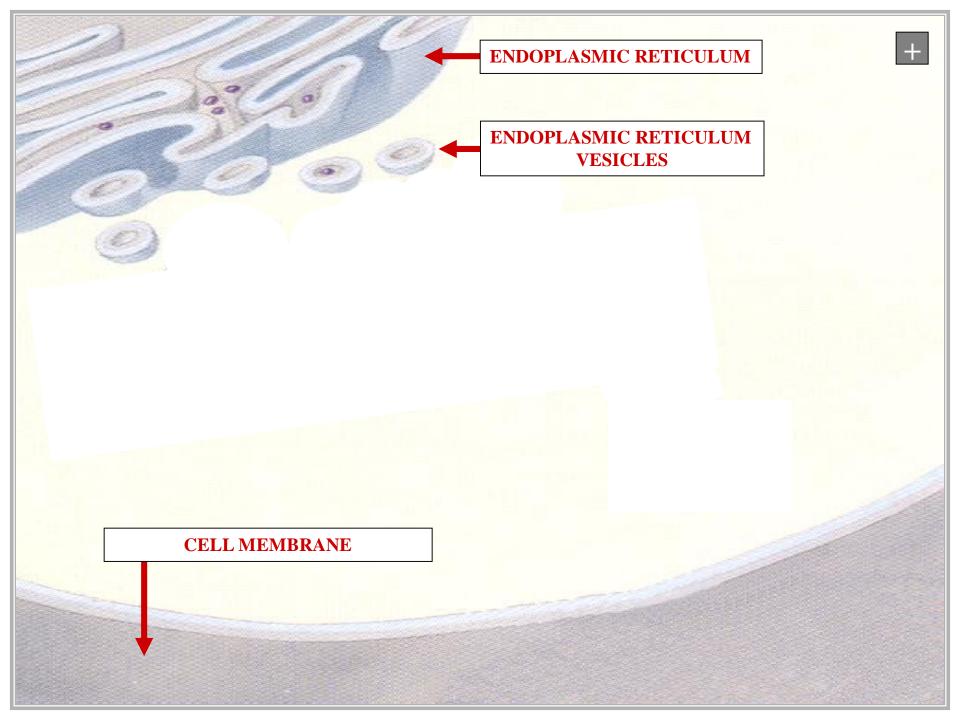


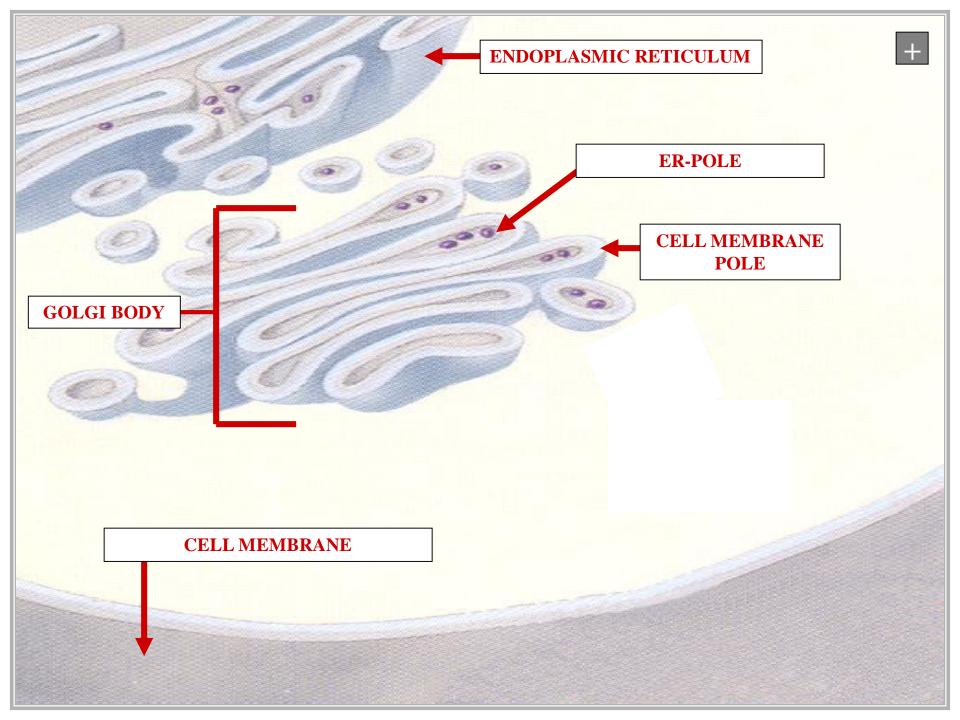
EXOCYTOSIS

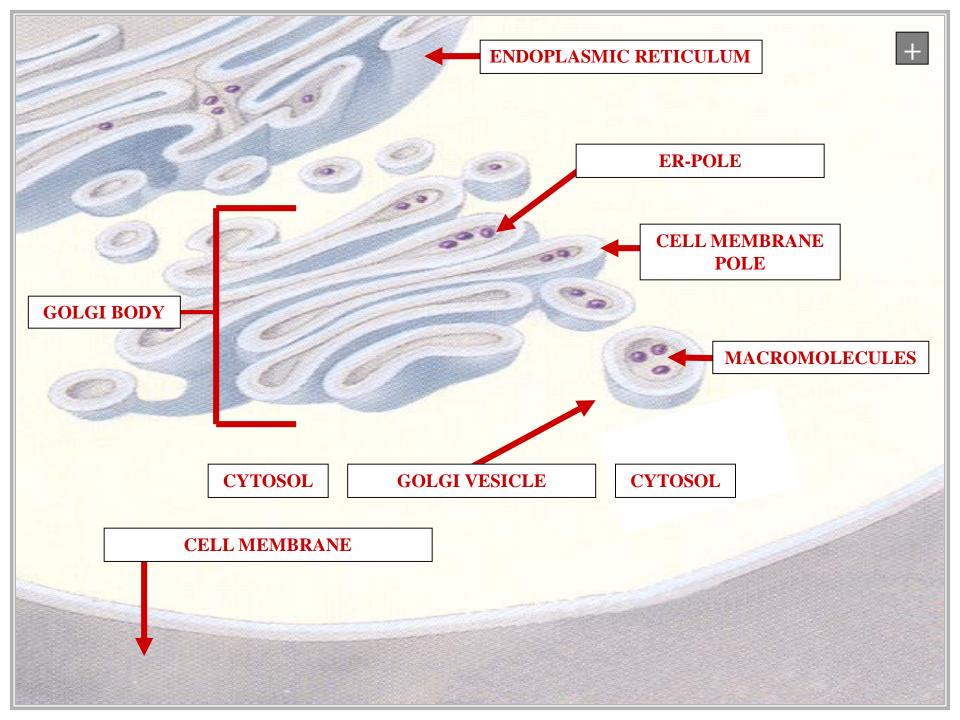
GOLGI BODY VESICLES FUSE WITH CELL MEMBRANE AND EXIT MACROMOLECULES FROM CELL

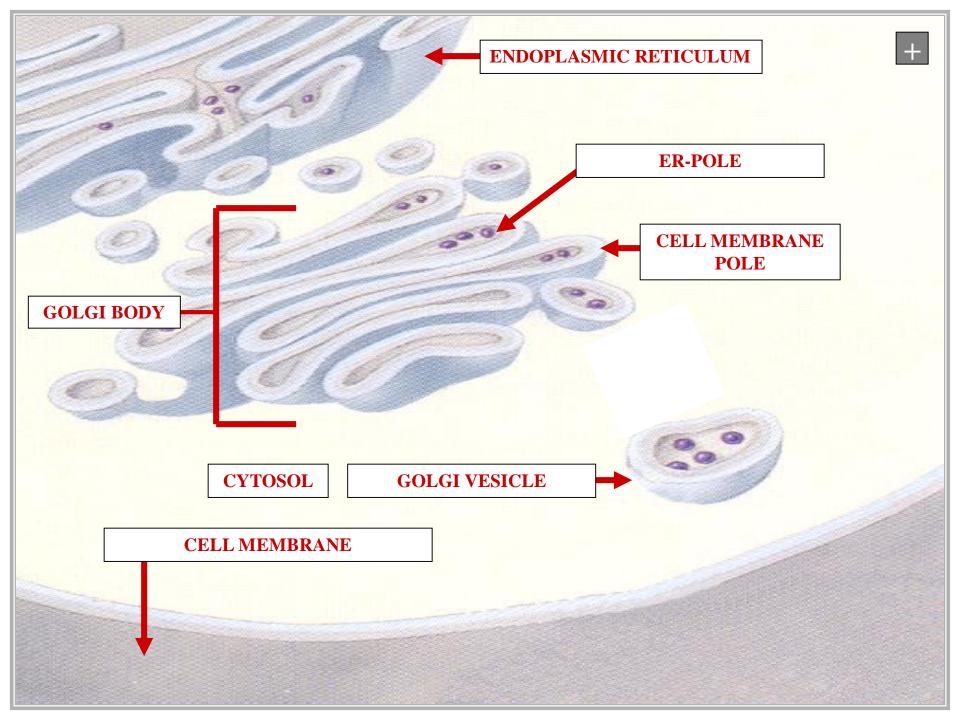
EXOCYTOSIS

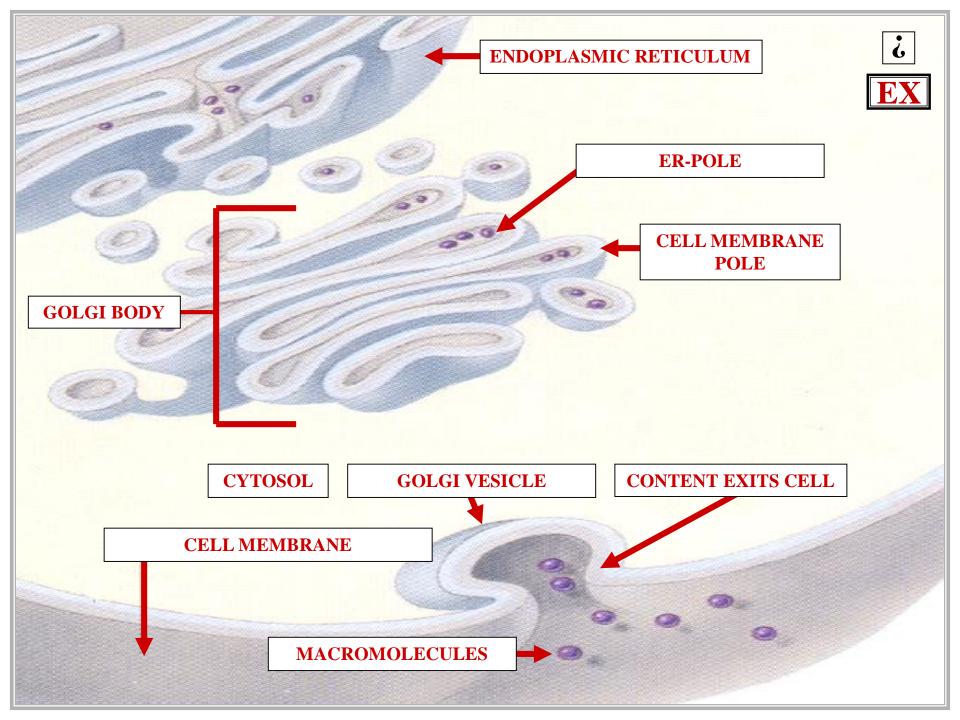


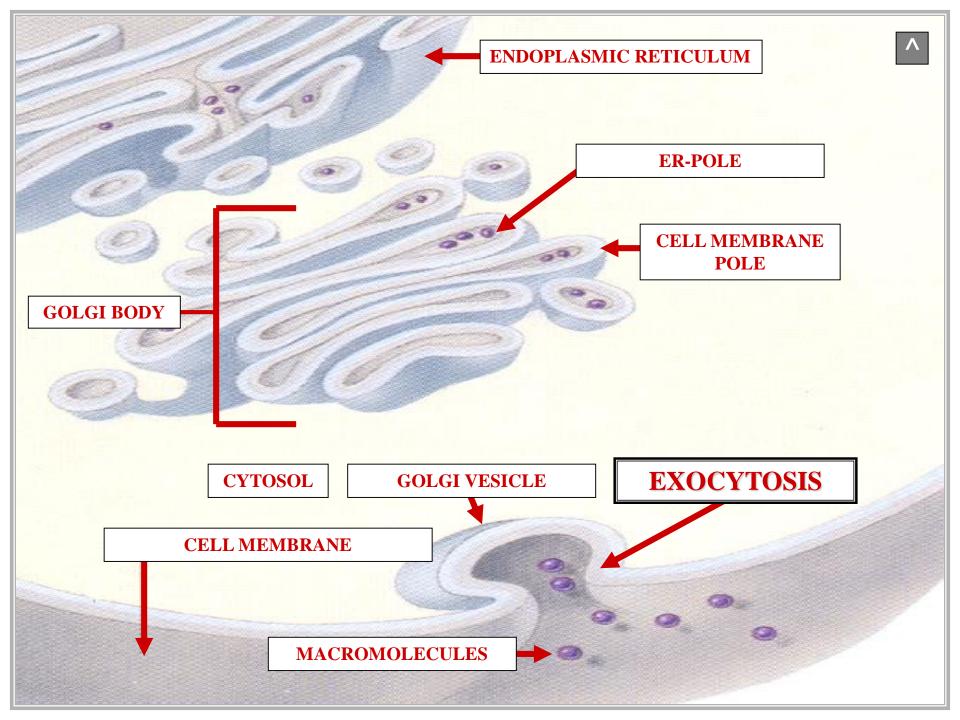












INTERNAL PASSAGE

ENDOCYTOSIS

ENDOCYTOSIS



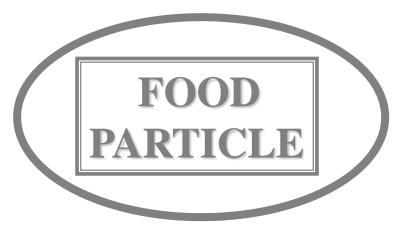
CELL MEMBRANE ENGULFS EXTERNAL MACROMOLECULES AND ENTERS MACROMOLECULES INTO CELL

ENDOCYTOSIS

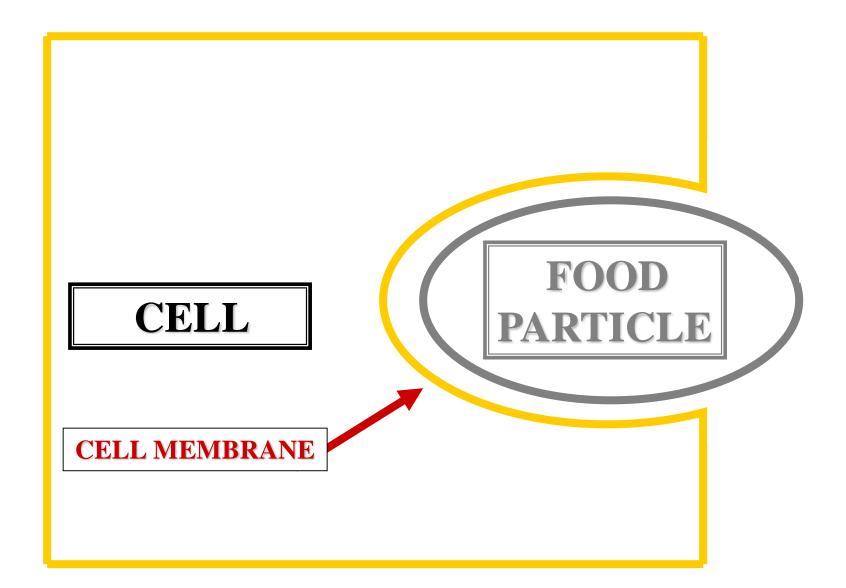


CELL





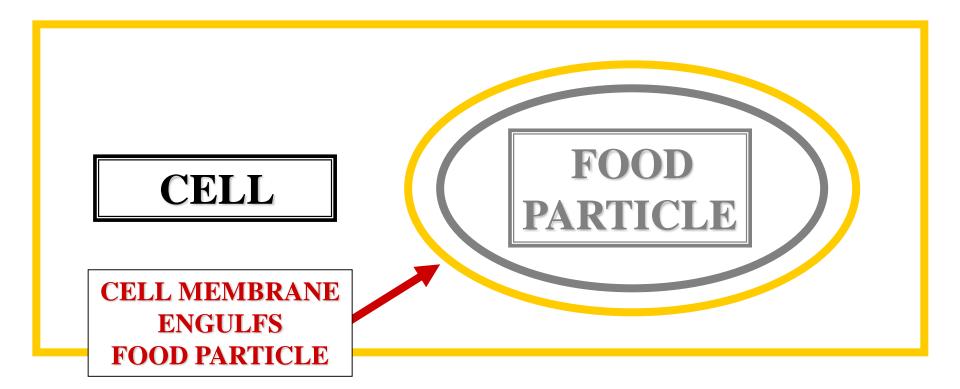


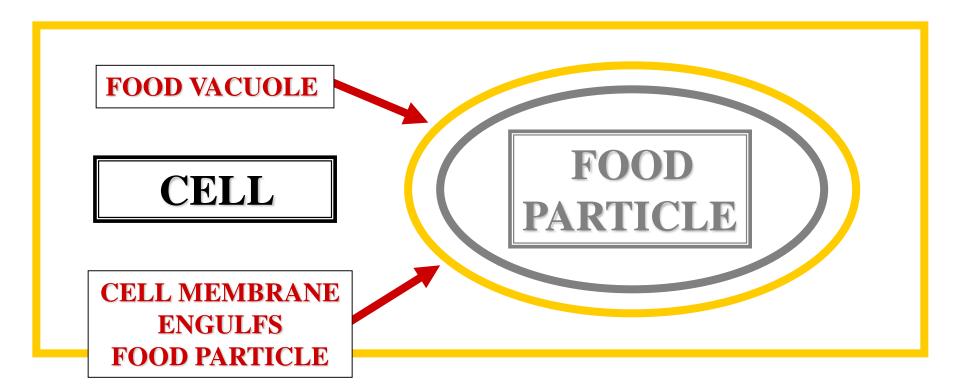


CELL

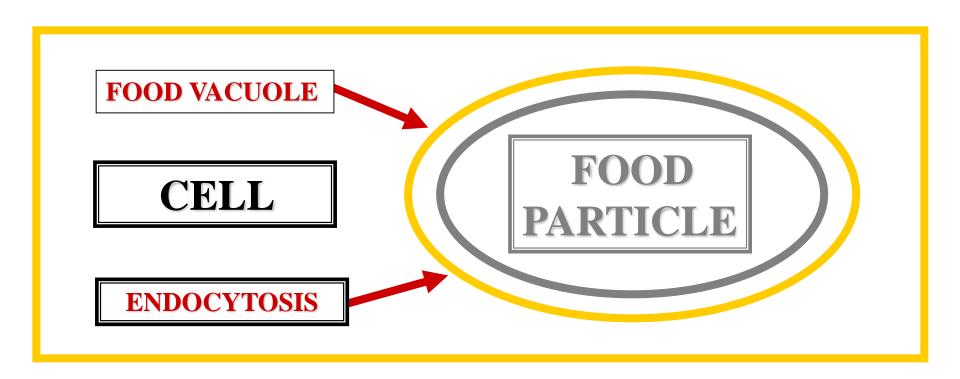
CELL MEMBRANE ENGULFS FOOD PARTICLE FOOD PARTICLE



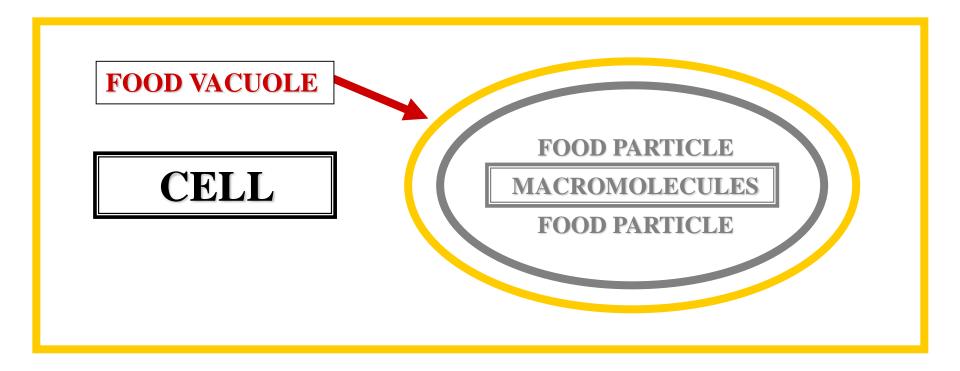


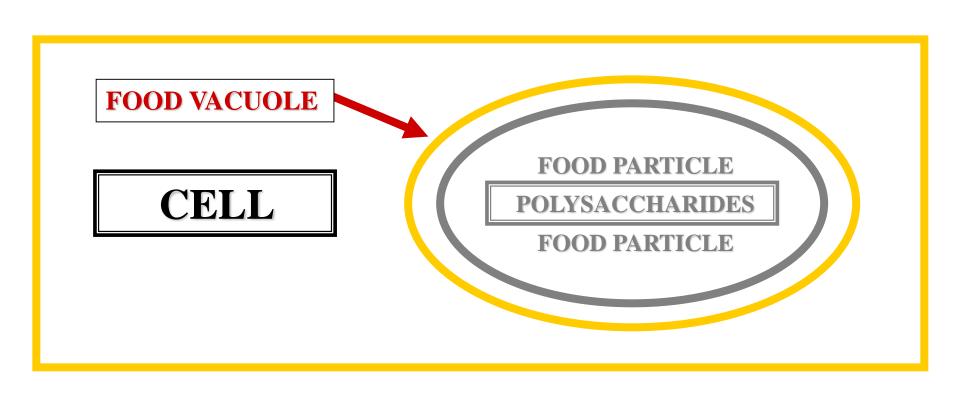




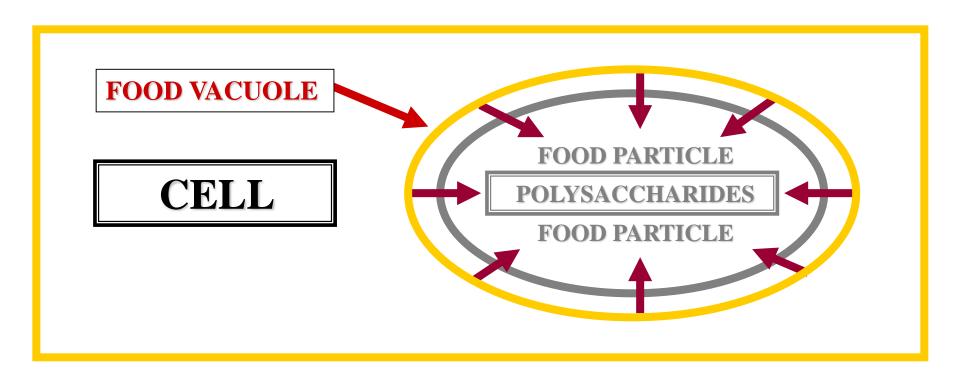




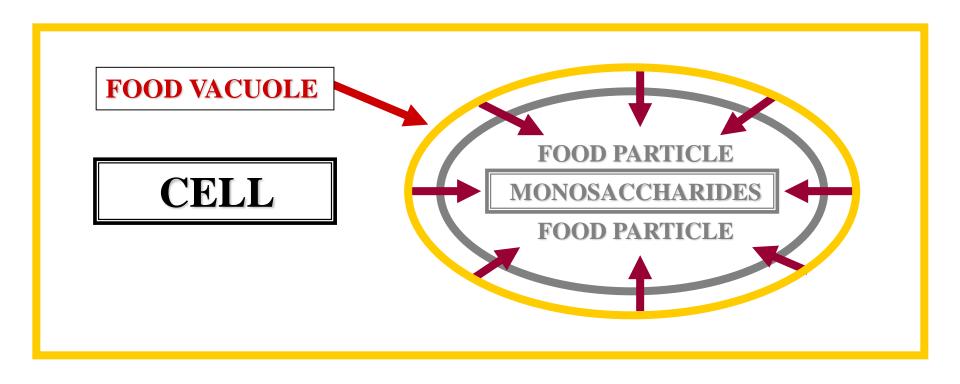






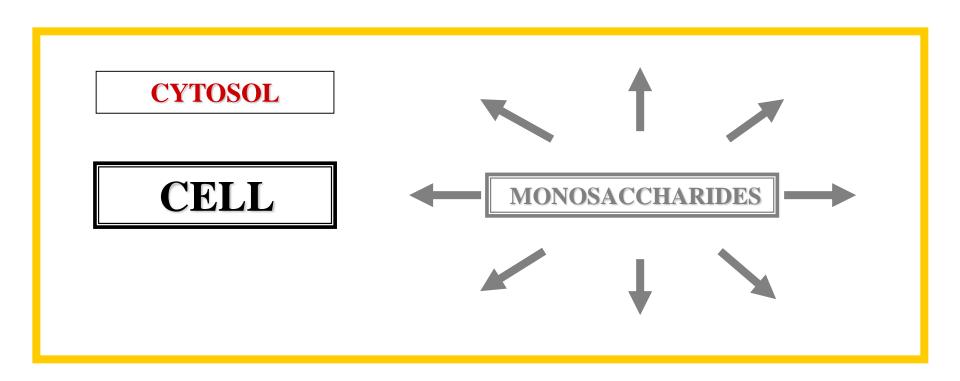


= HYDROLYTIC ENZYMES

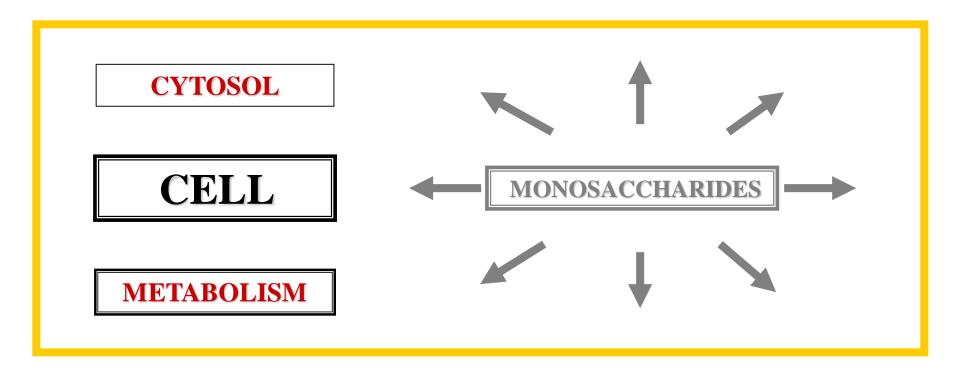


= HYDROLYTIC ENZYMES



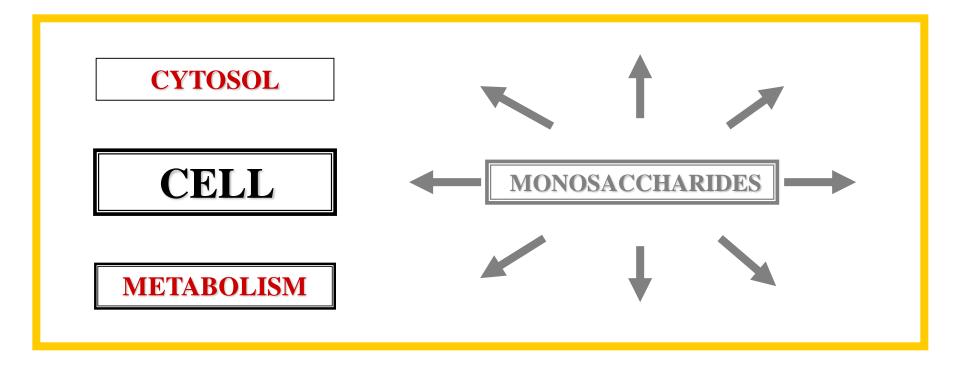








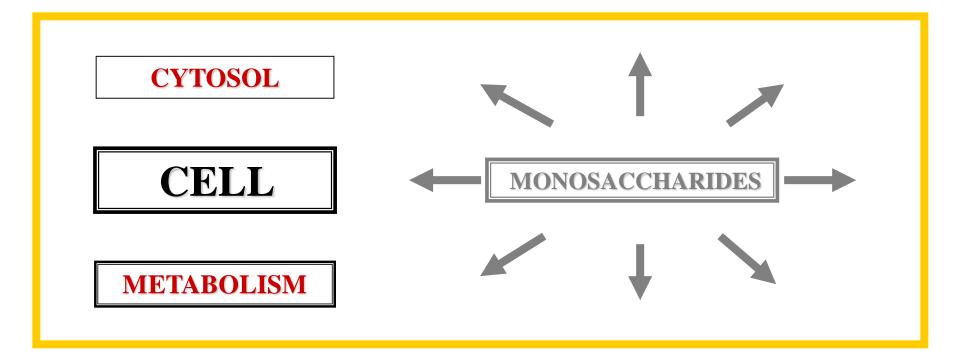
EFFICIENT METABOLISM



EFFICIENT METABOLISM

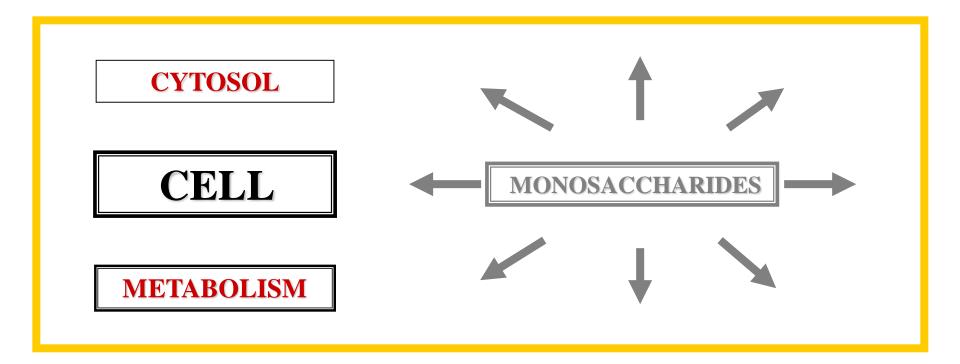


ORGANIZATION INCREASES



ORGANIZATION INCREASES

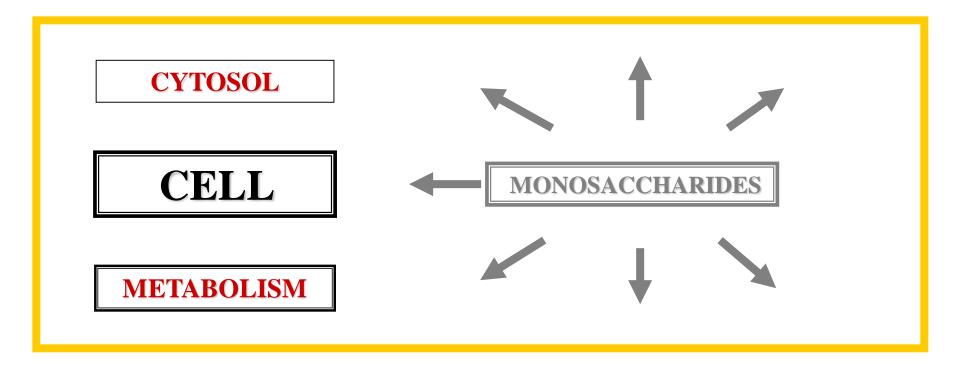
ENTOPY DECREASES



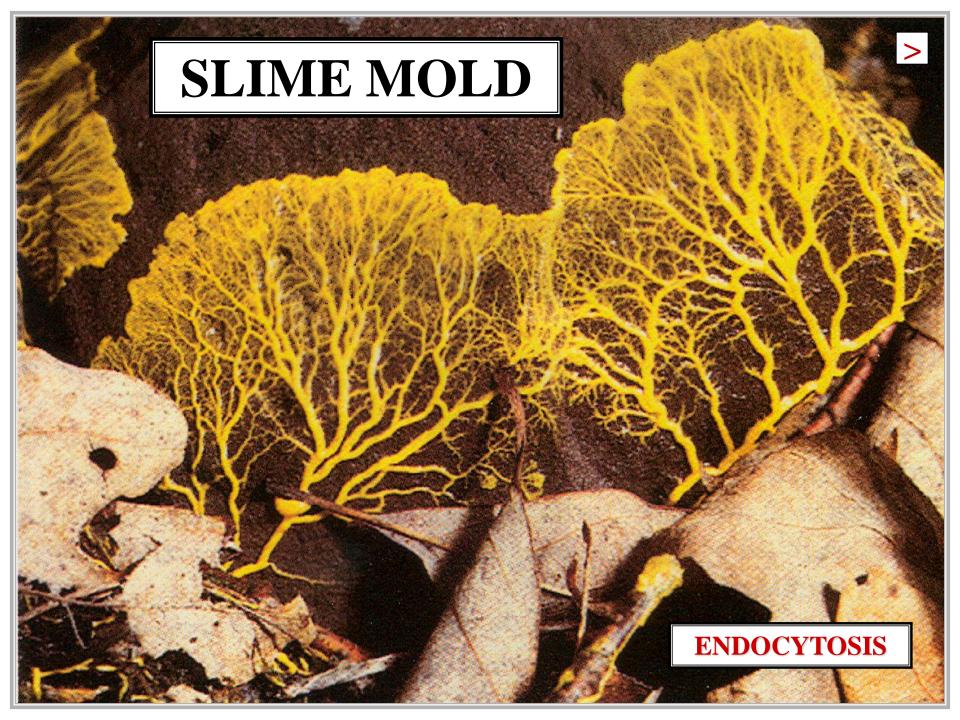
ENTROPY DECREASES

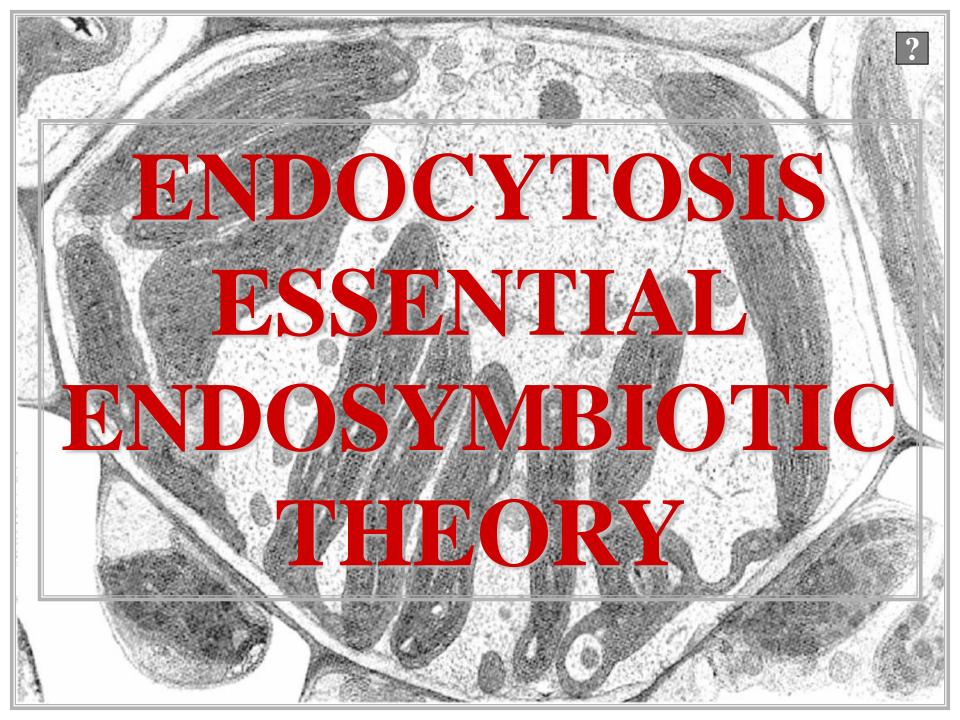


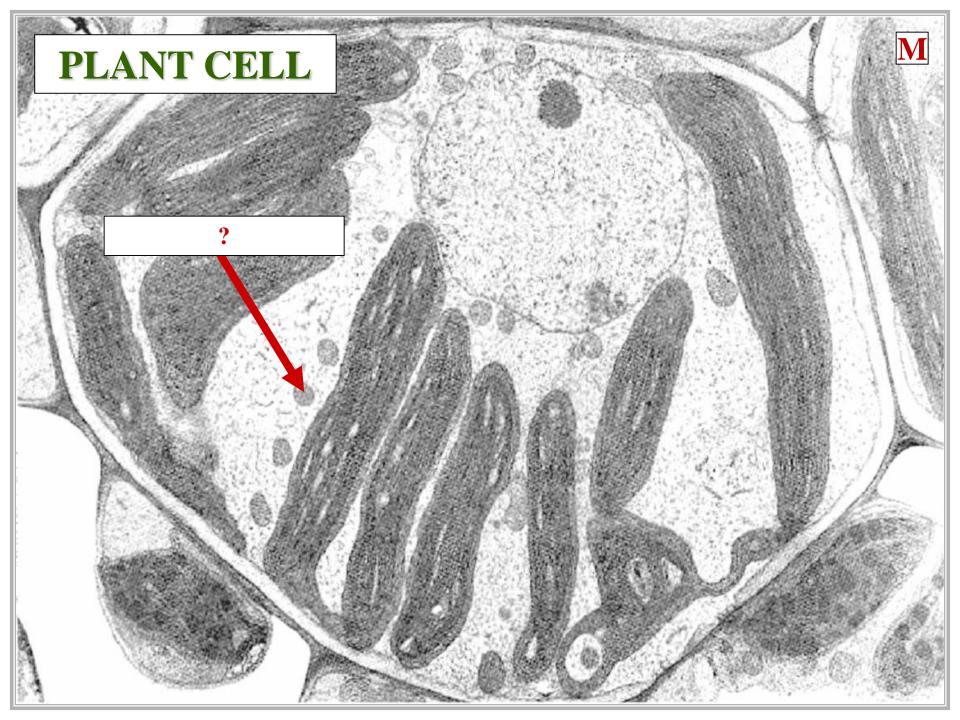
HOMEOSTASIS

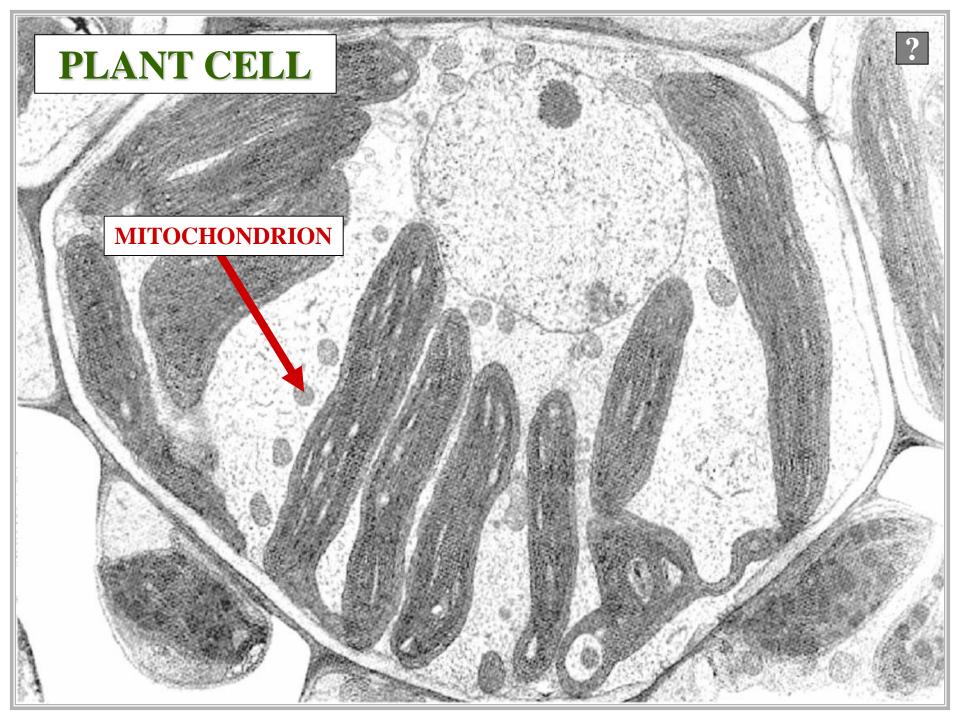


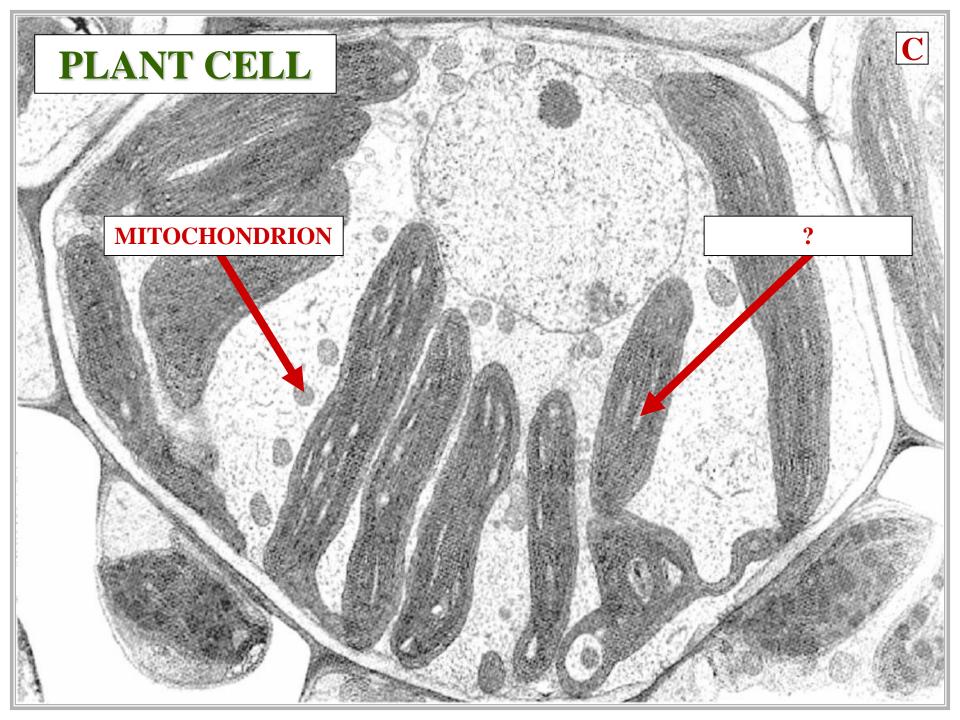
HOMEOSTASIS

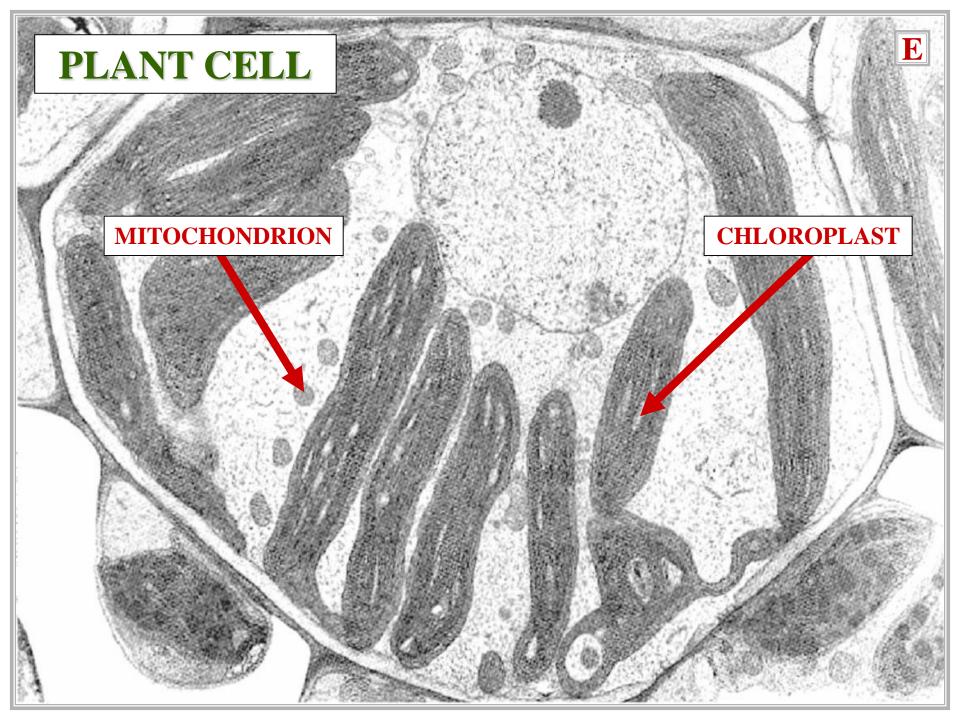


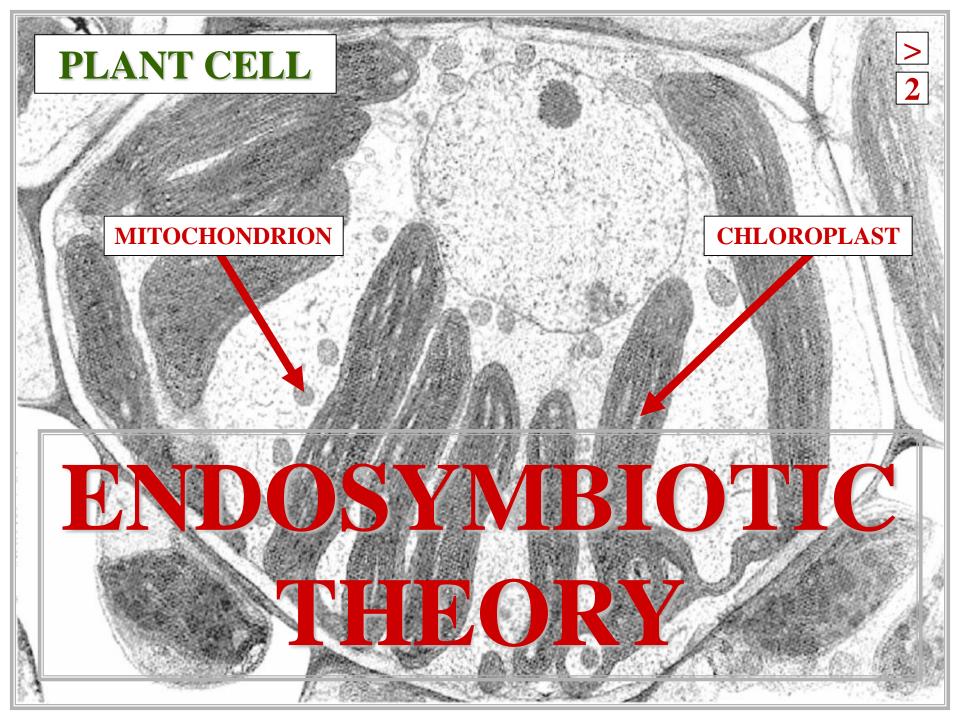


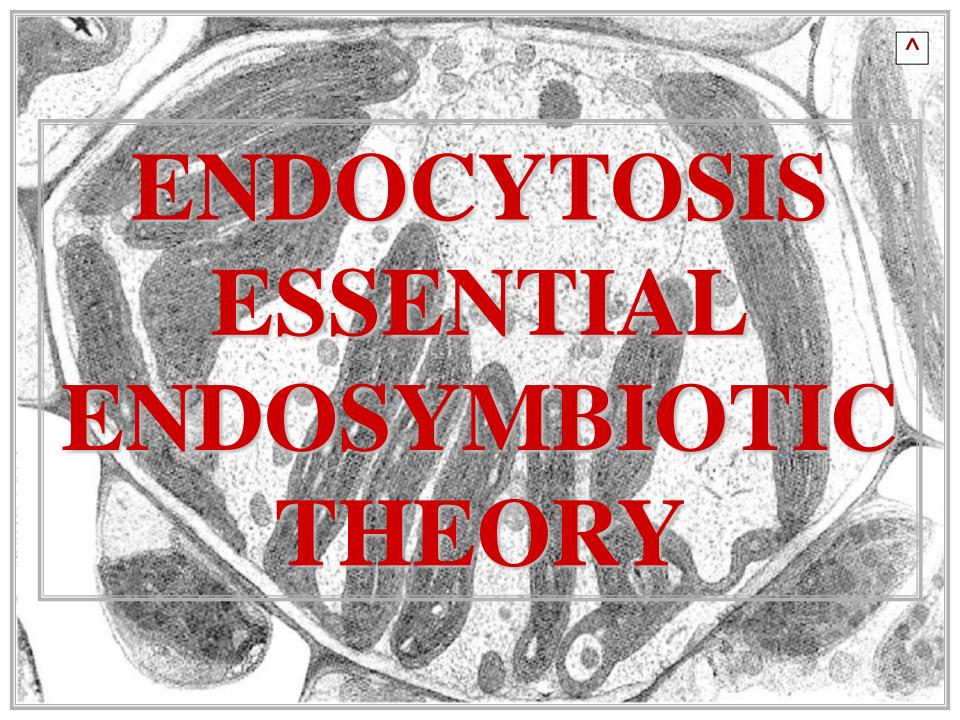












CHAPTER 10 PHOSYNTHESIS



QUESTION WHAT DO BIOLOGISTS CALL THE STUDY OF **BIOCHEMISTRY? QUESTION**

ANSWER

PHYSIOLOGY

ANSWER

PHYSIOLOGY

PHYSIOLOGY

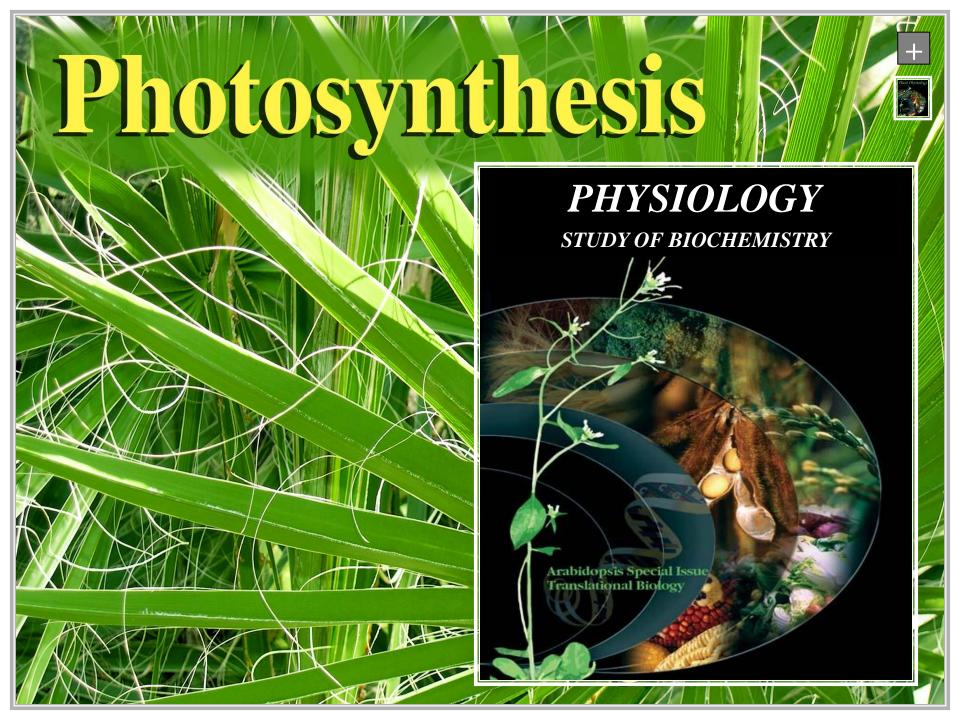
STUDY BIOCHEMISTRY

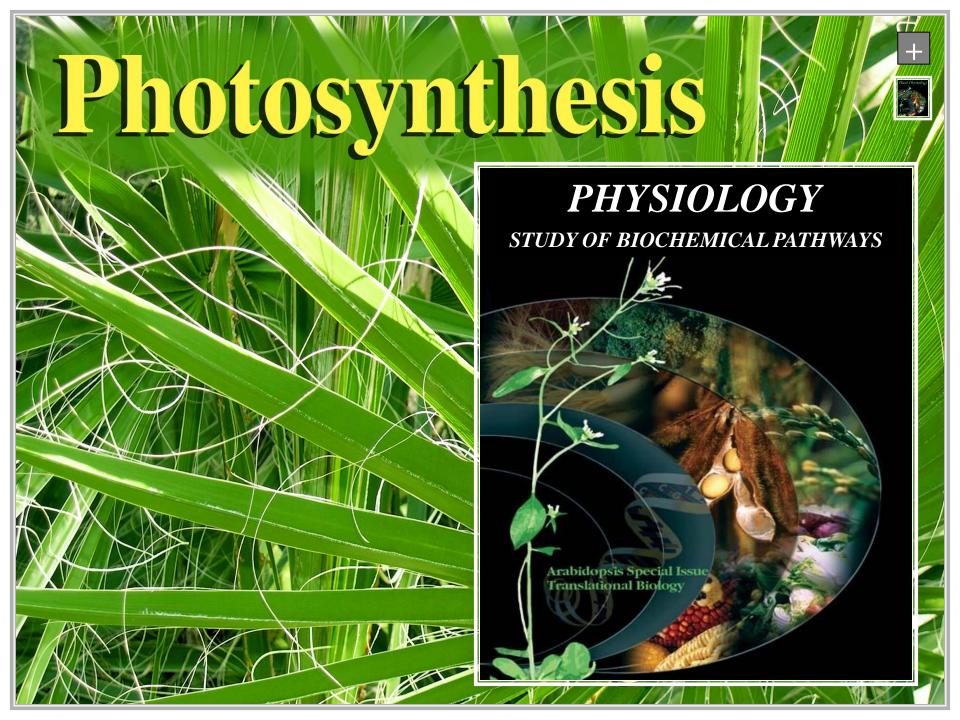
PHYSIOLOGY

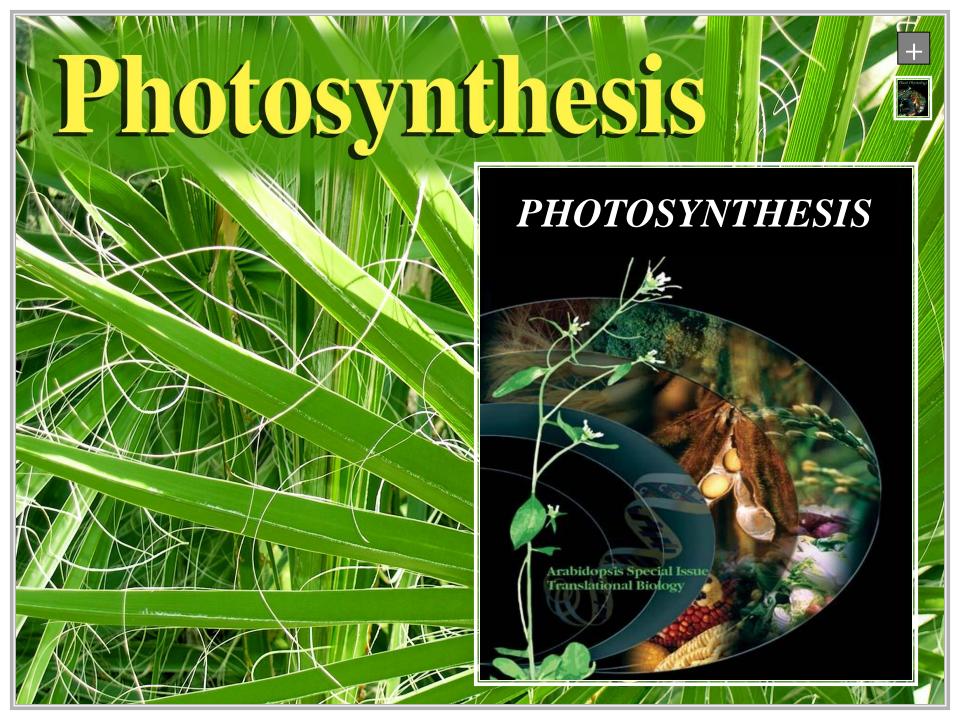


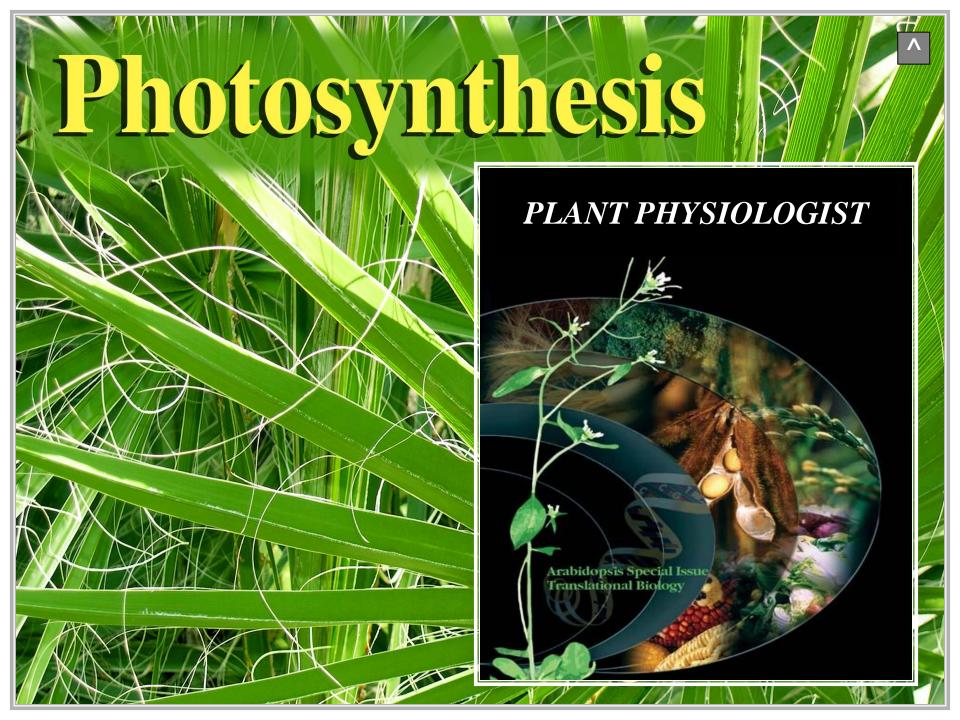
PHYSIOLOGY STUDY BIOCHEMISTRY

STUDY
BIOCHEMICAL
PATHWAYS
PHYSIOLOGY







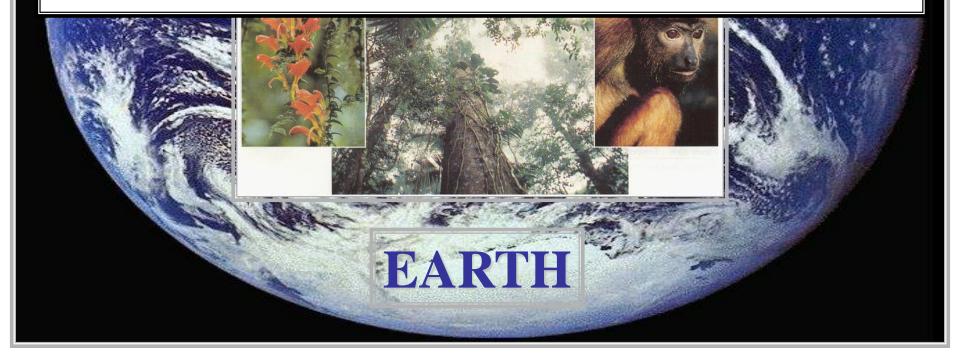


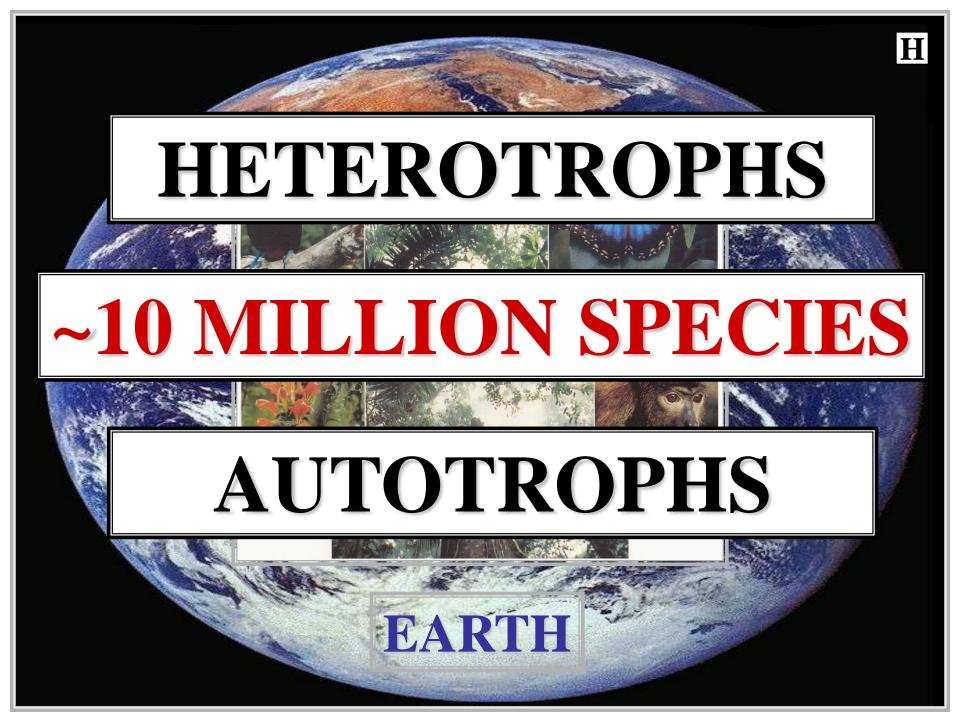


HETEROTROPHS VS AUTOTROPHS



~10 MILLION SPECIES





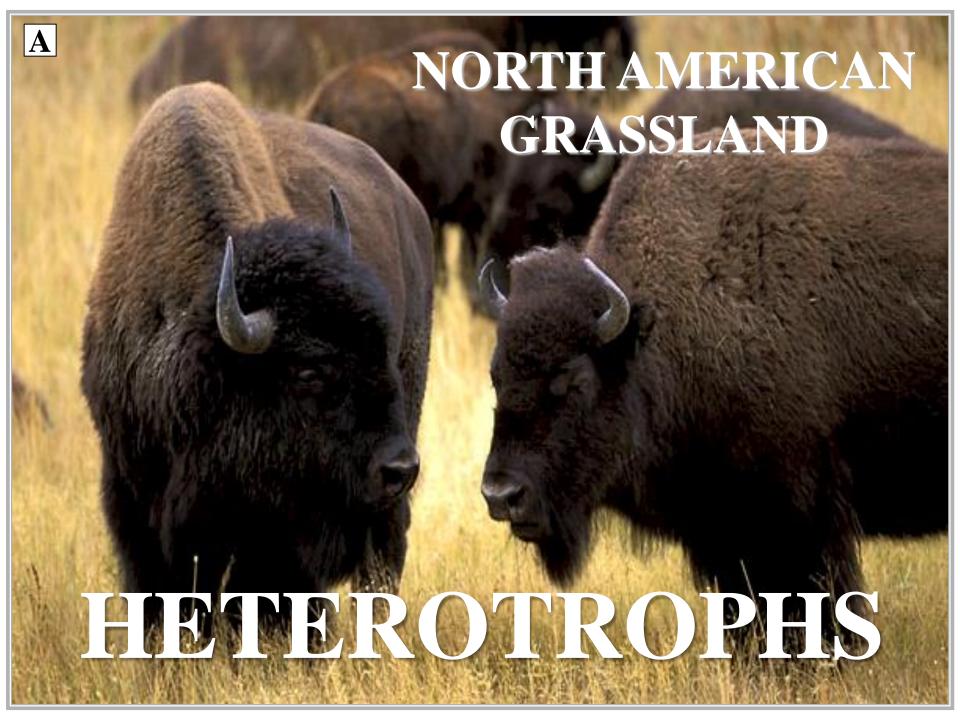
HETEROTROPHS



HETEROTROPHS

INCAPABLE CARBOHYDRATE SYNTHESIS

HETEROTROPHS



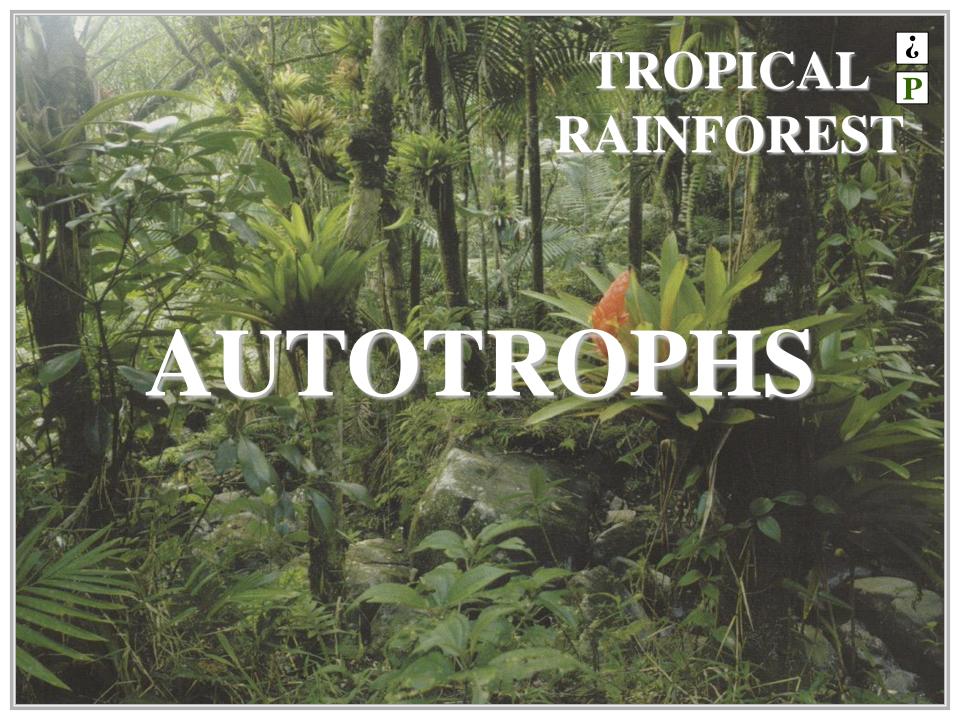
AUTOTROPHS

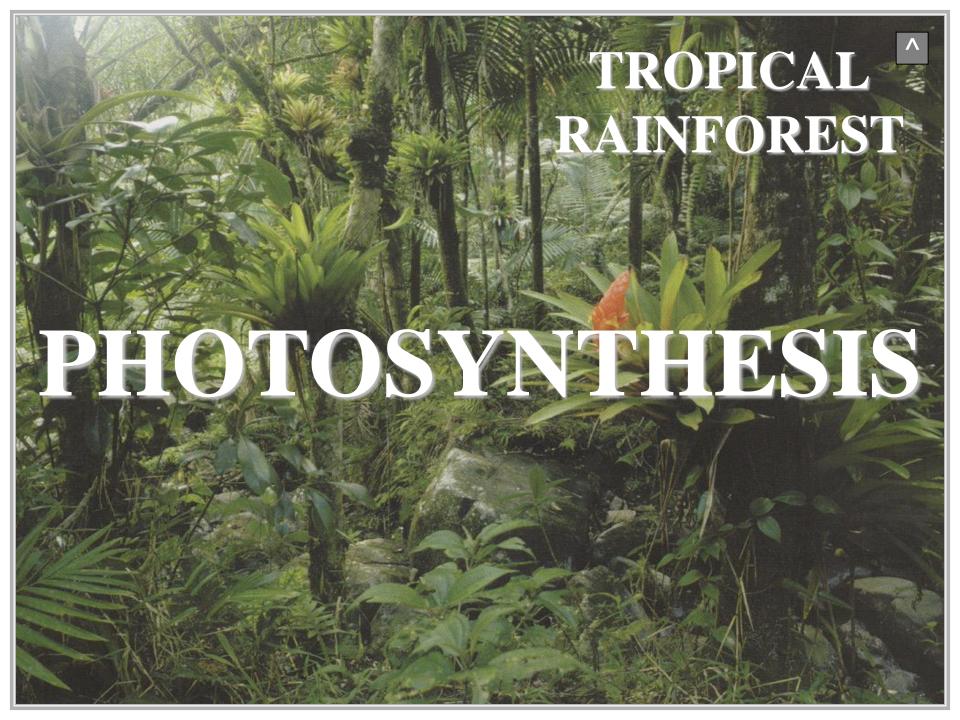


AUTOTROPHS

CAPABLE CARBOHYDRATE SYNTHESIS

AUTOTROPHS

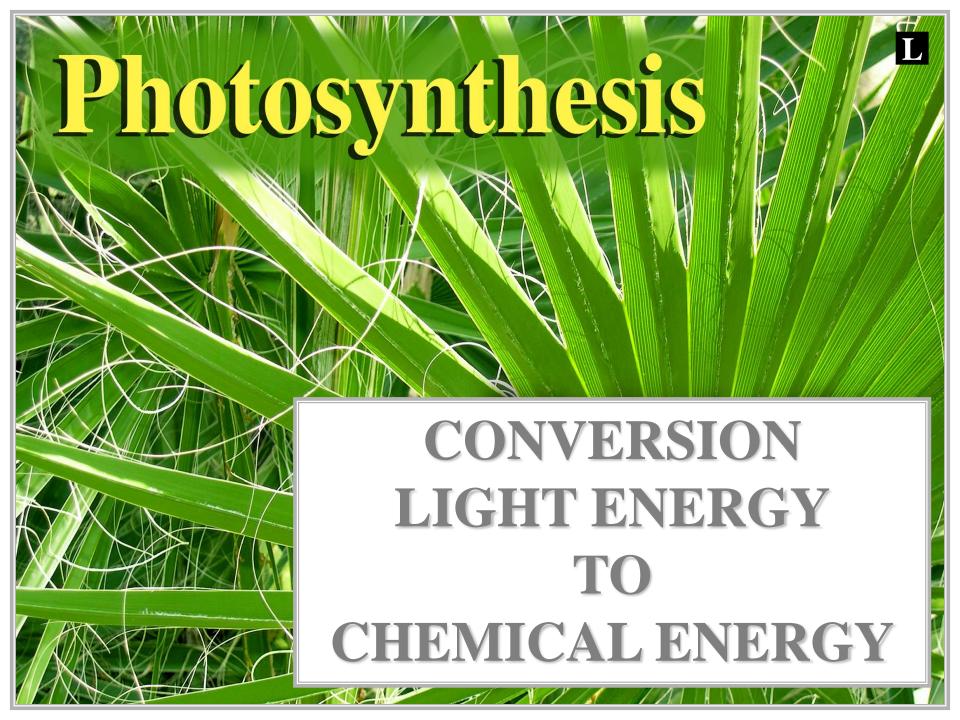


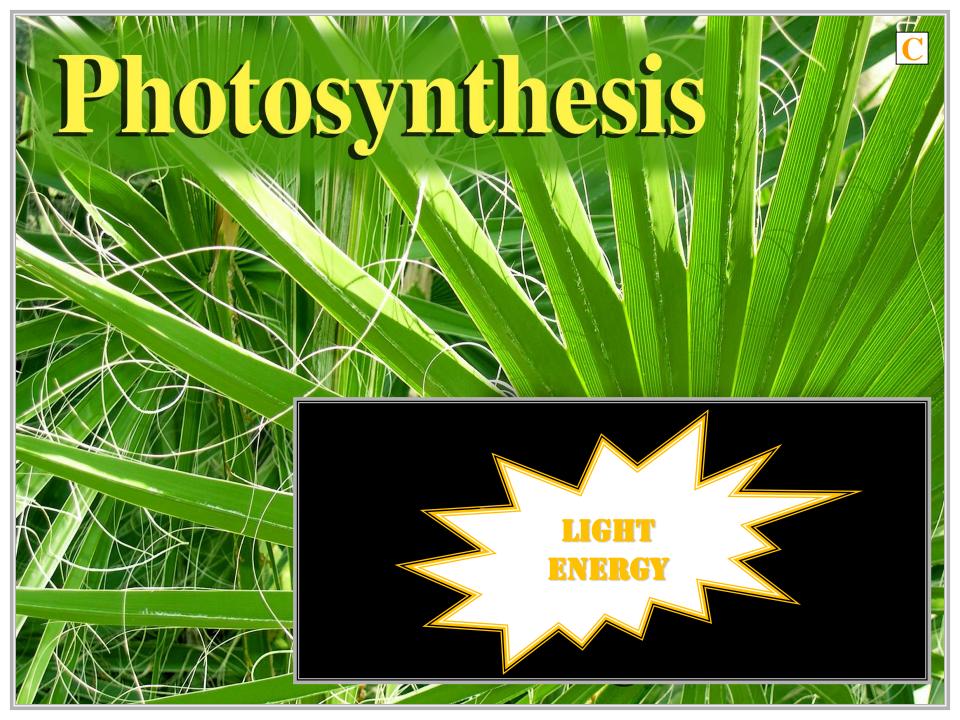


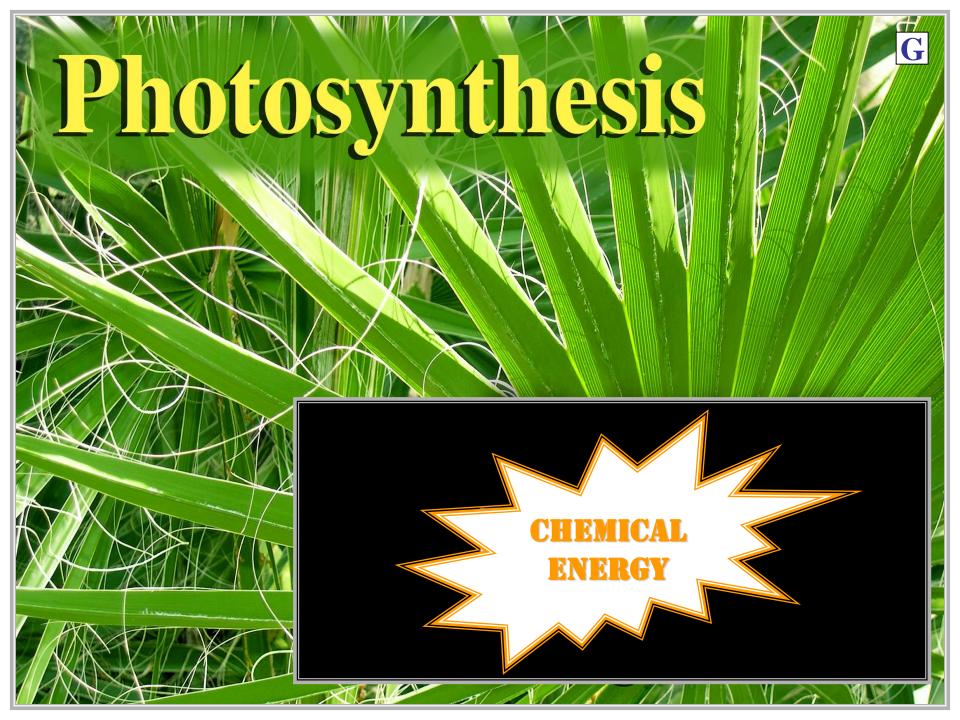
PHOTOSYNTHESIS DEFINED

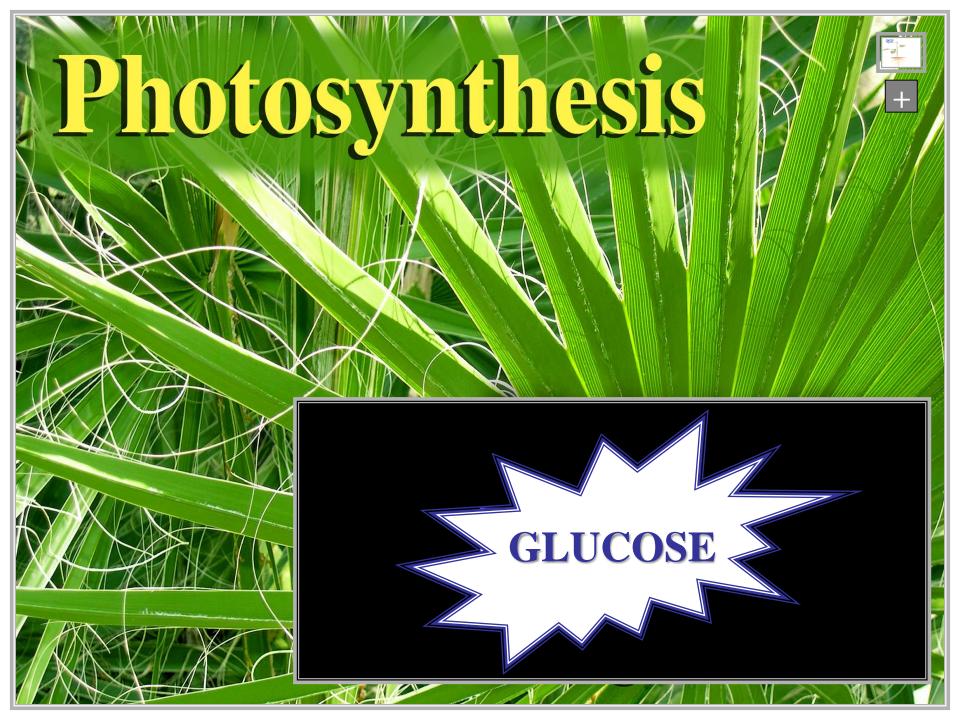


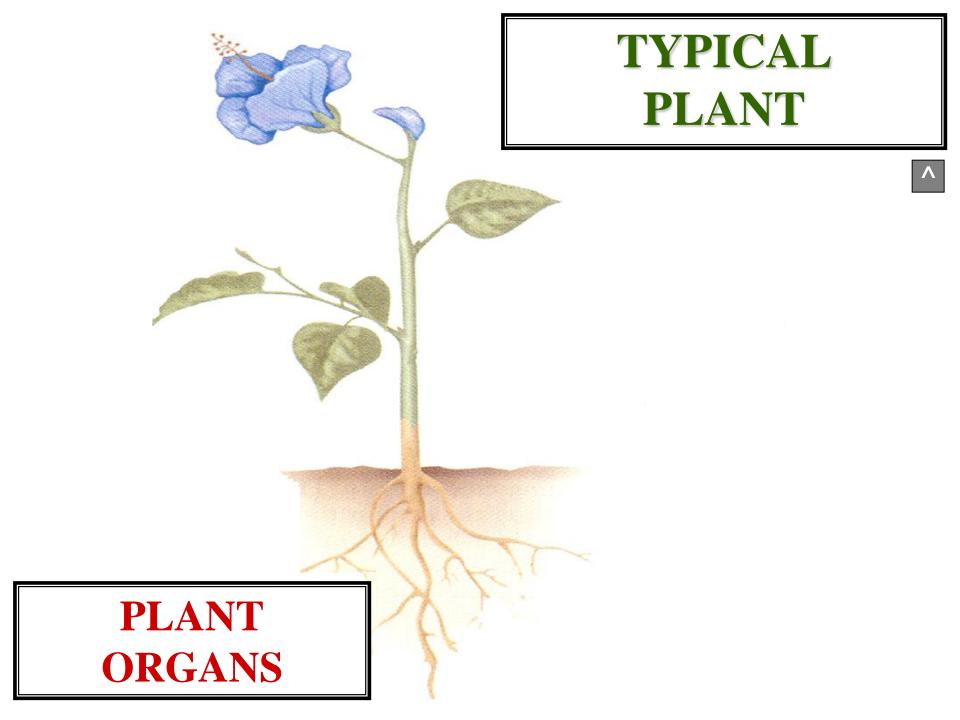
PHOTOSYNTHESIS











TYPICAL PLANT ORGANS

TYPICAL PLANT ORGANS

ROOT

TYPICAL PLANT ORGANS