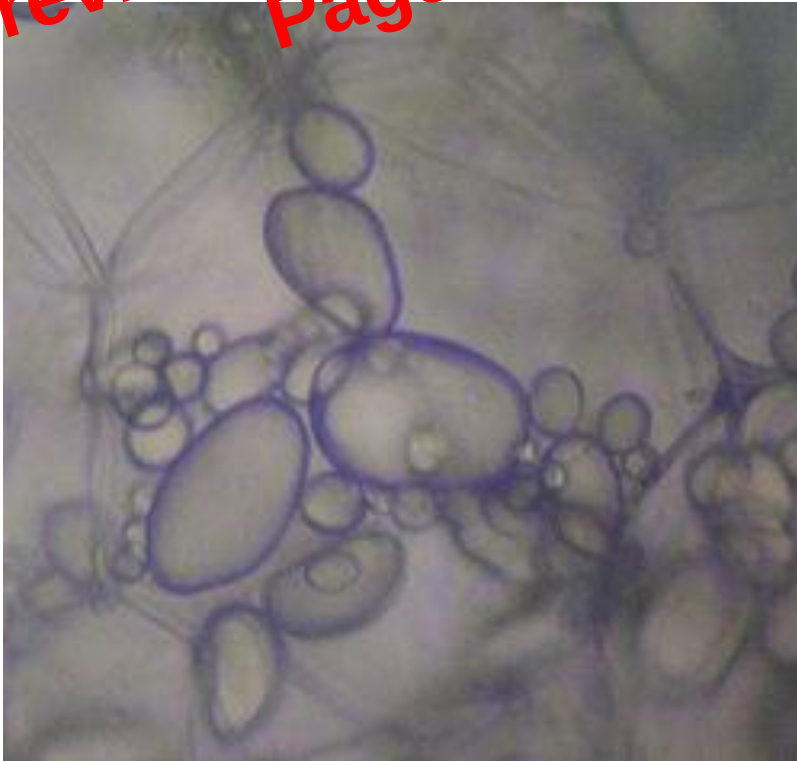


LEUCOPLAST

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- Leucoplasts are found in parenchyma cells of root, stem and seeds
- they act as storage organelles.
- they are colorless .
- they are triangular tubular or of some other shape, they are found in underground parts of the plant and store food.
- they developed in the absence of sunlight.
- Based on the kind of substance they store they further classified into **AMYLOPLASTS (store starch), ELAILOPLASTS (store lipids), and PROTEINOPLAST (store protein).**

ENVELOPE

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- Each Chloroplast is bounded by a smooth double membrane envelope.
- the outer membrane like mitochondria contains **porins** and therefore freely permeable to small molecules .
- the inner membrane is semipermeable and rich in protein.
- between the outer and inner membrane there is **intermembrane space**.