

Plastid

الصانعات

أ. محمد أبو زيتون أ. عبير العاني

Stroma. ةَوْمَة

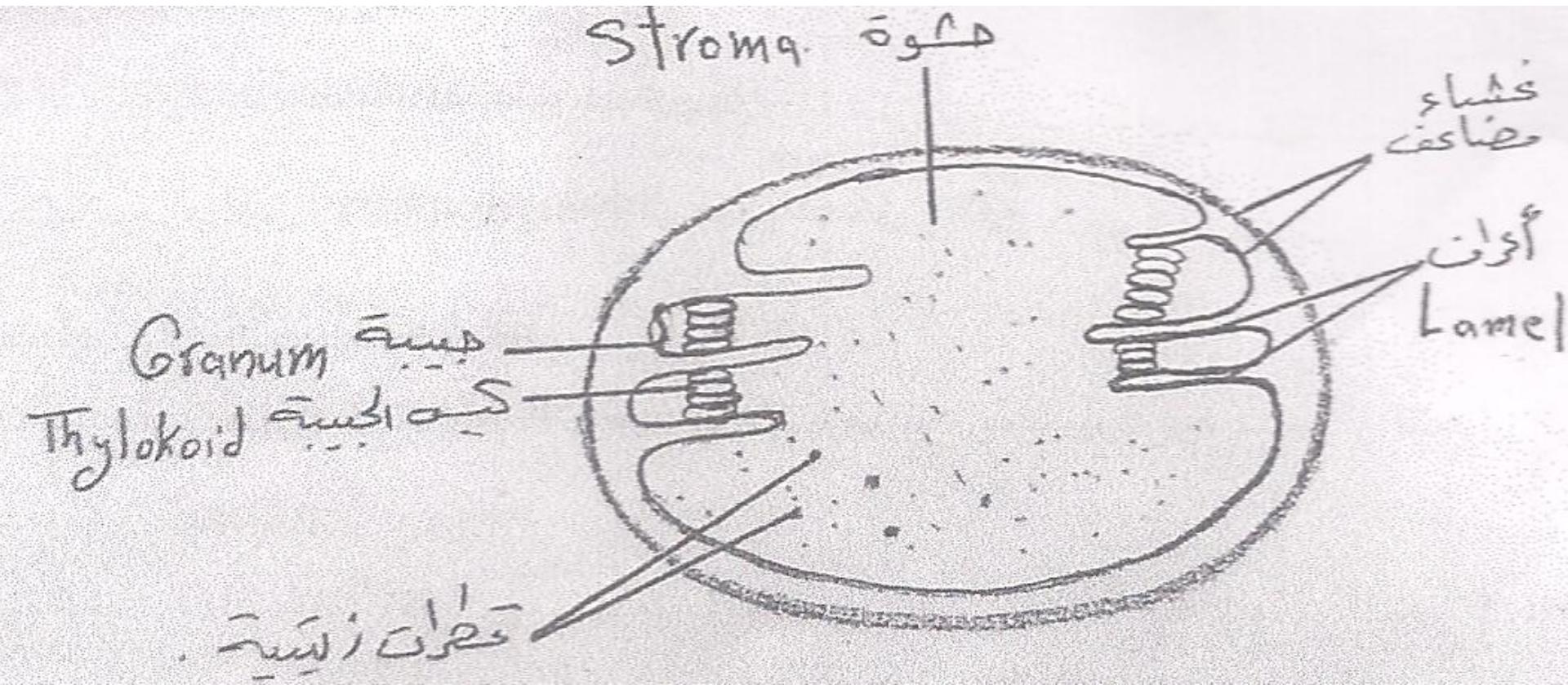
خُسَاء
ضَيَّقَ

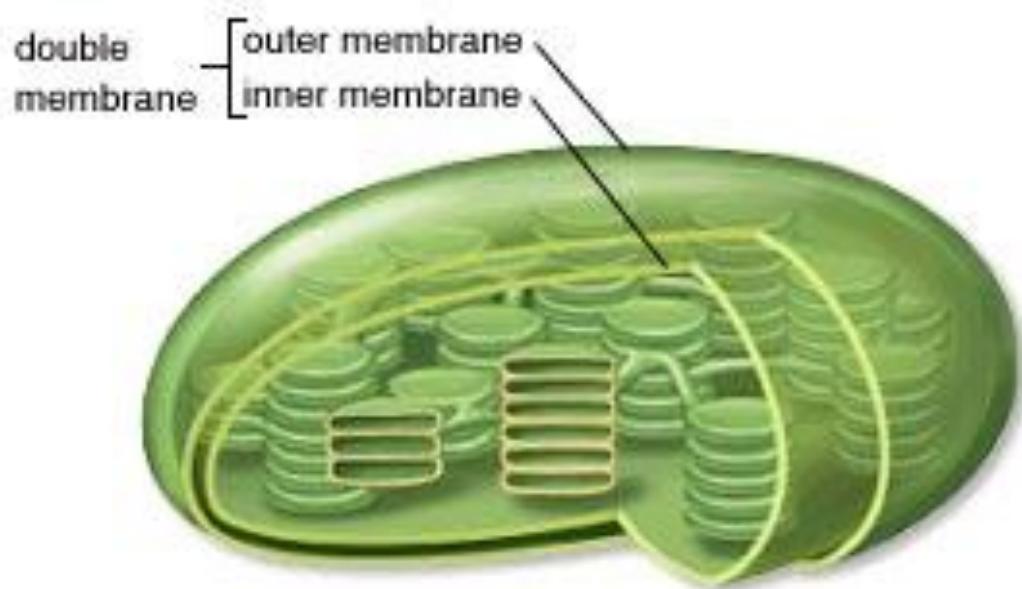
أَوْانٌ
Lamellae

Granum أَنْجَس

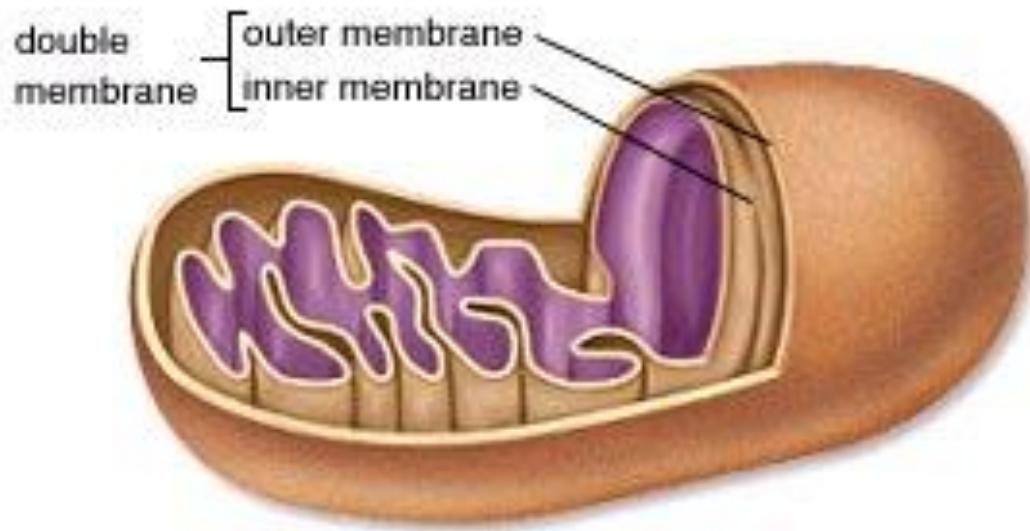
Thylakoid أَكْسِتَوكَوِيد

الْمَسَكَنُونَ





Chloroplast

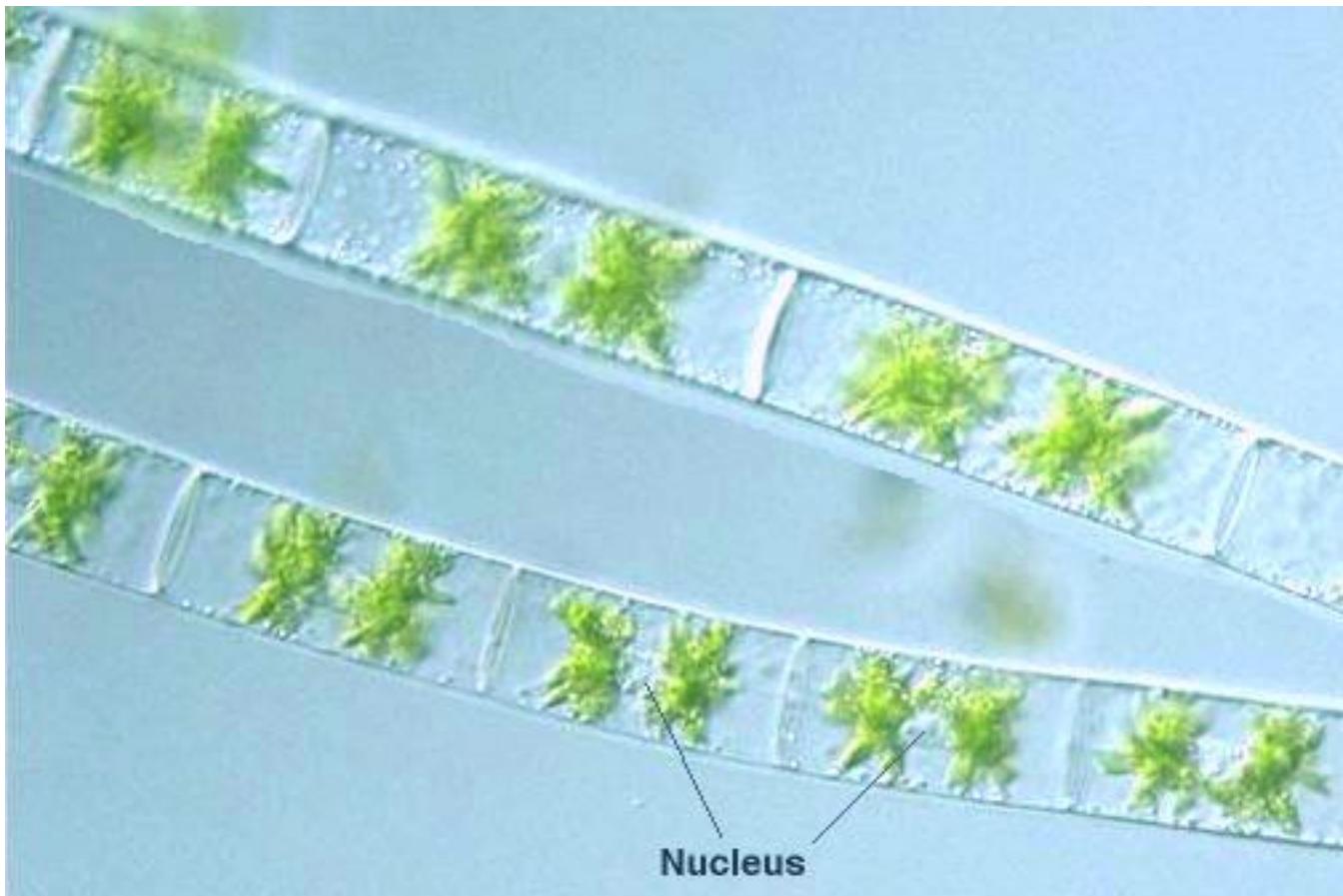


Mitochondrion

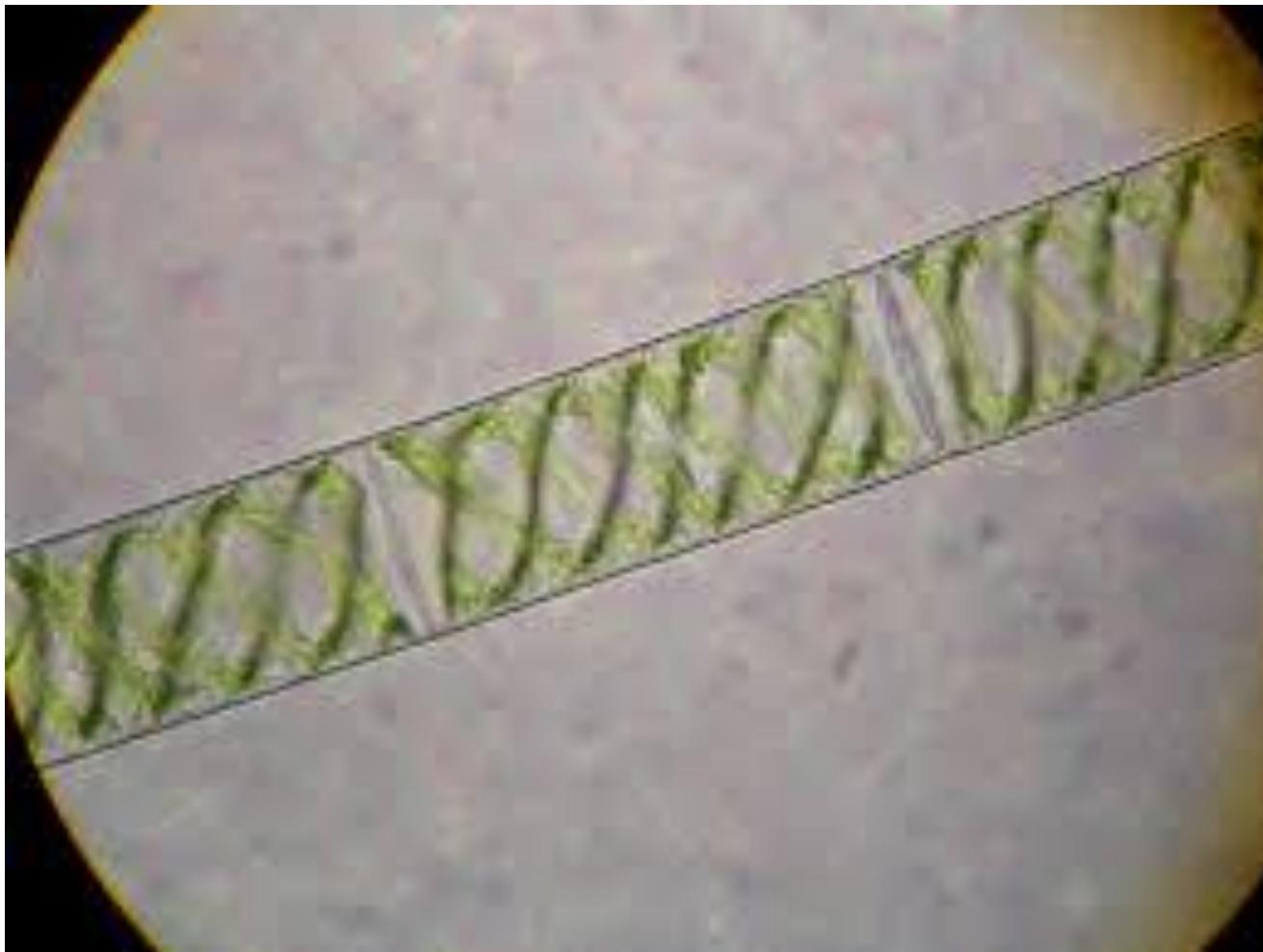
- Chlorophylle A C₅₅H₇₂O₅N₄Mg
- Chlorophylle B C₅₅H₇₀O₆N₄Mg
- Carotene C₄₀H₅₆
- Xanthophyle C₄₀H₅₆O₂

Chloroplast

Zygnema

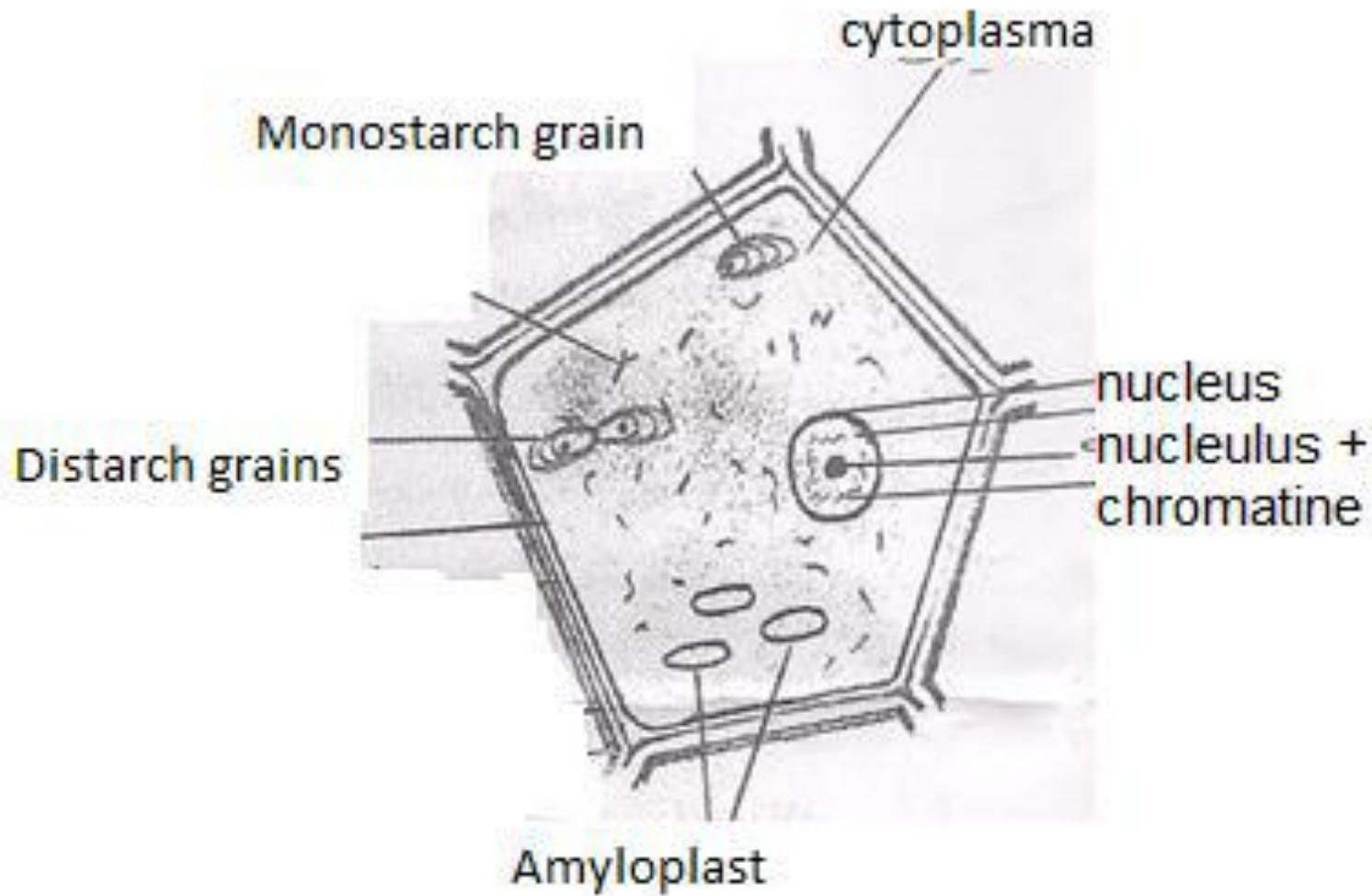


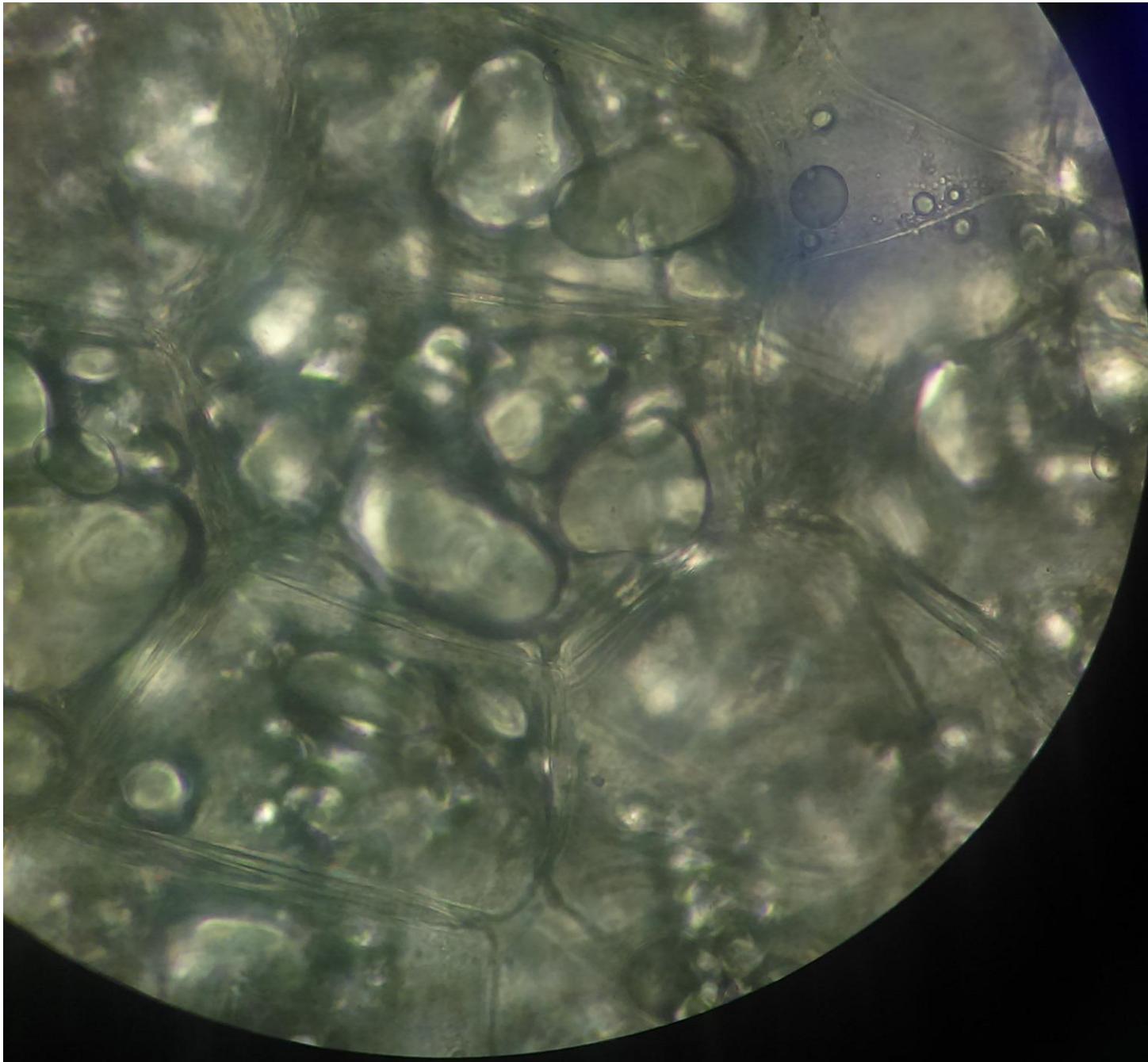
Spirogera

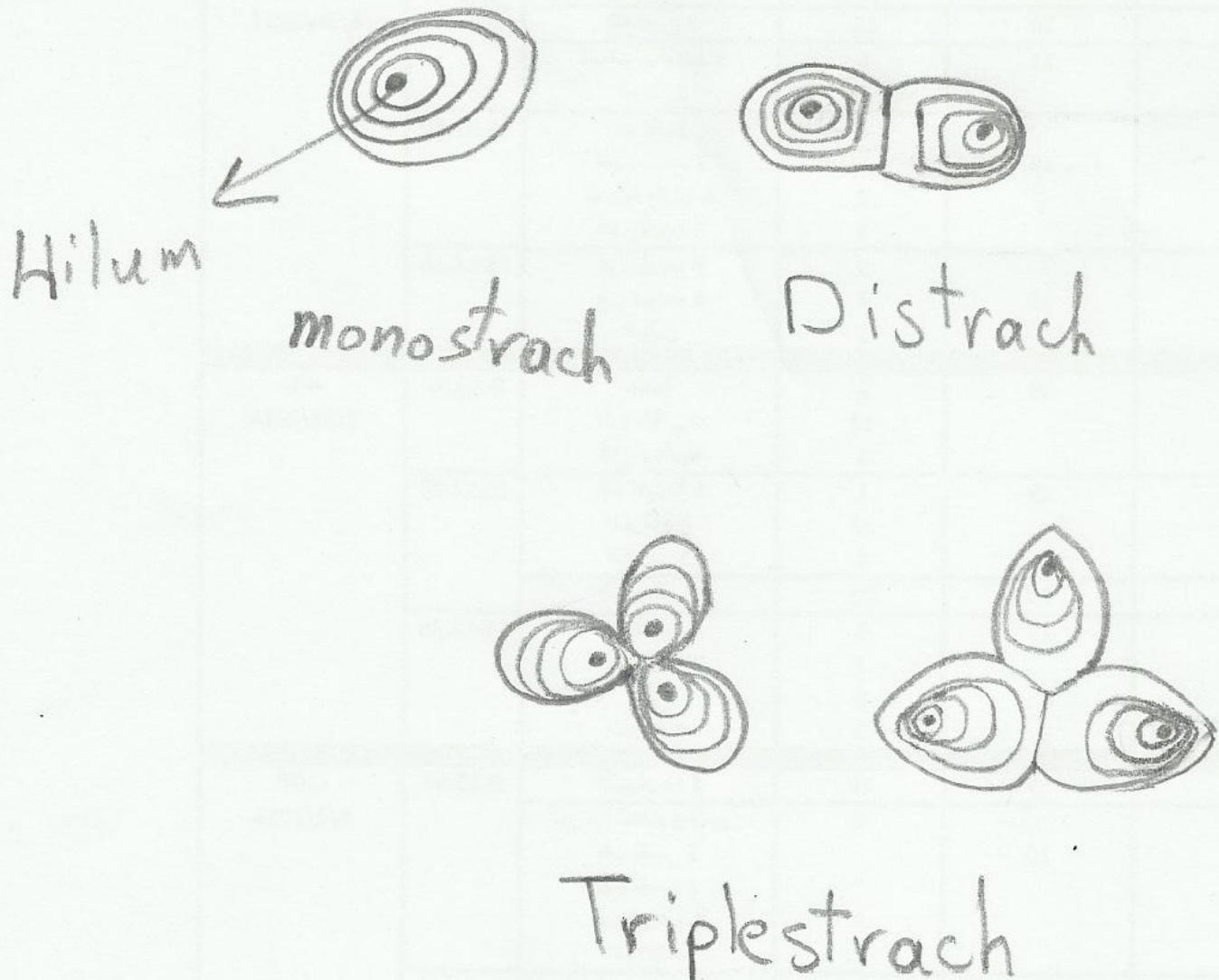


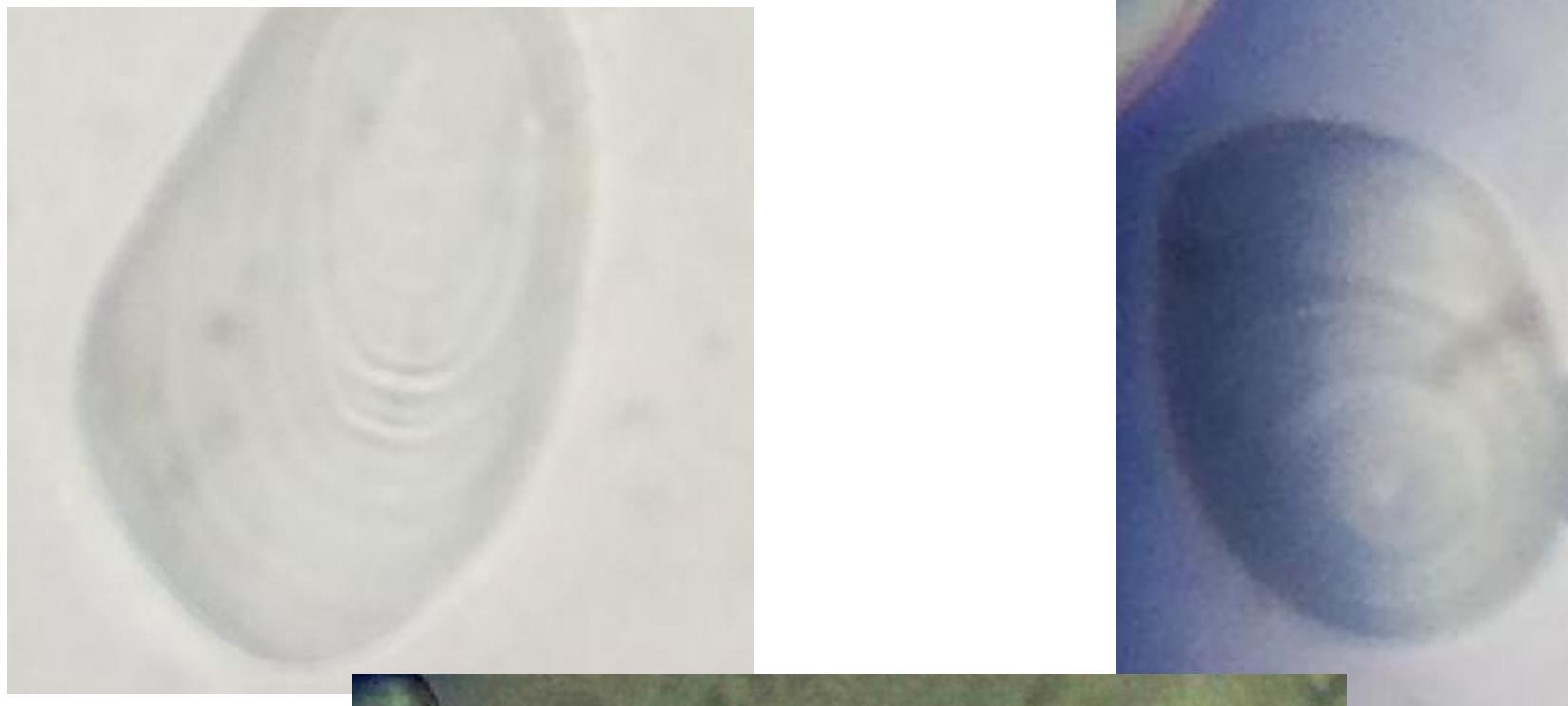
Amyloplast

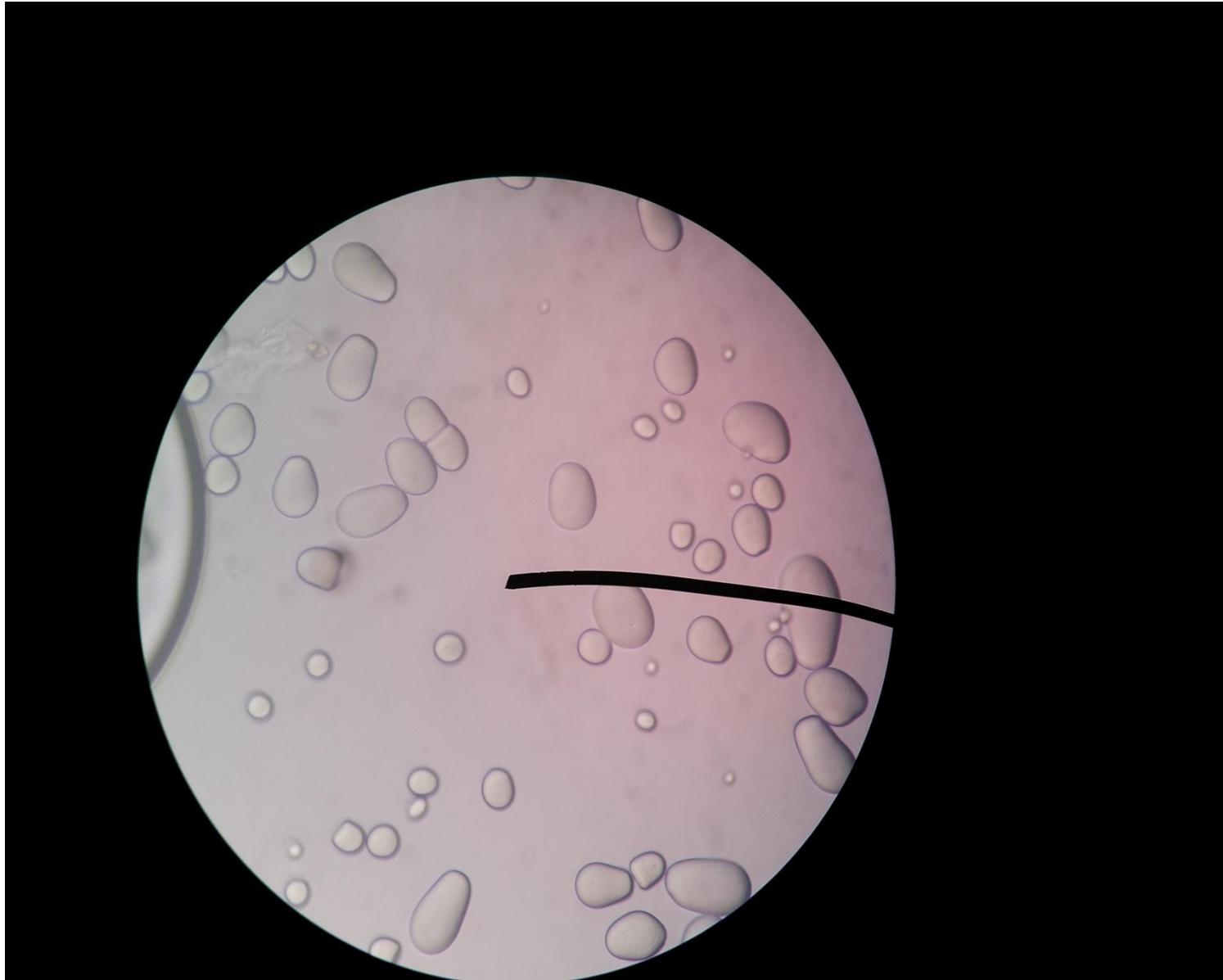
- Family: Solanaceae
- Genus: Solanum
- Species: Solanum tuberosum
- Organ: potato tuber
- Medium: iodin or water

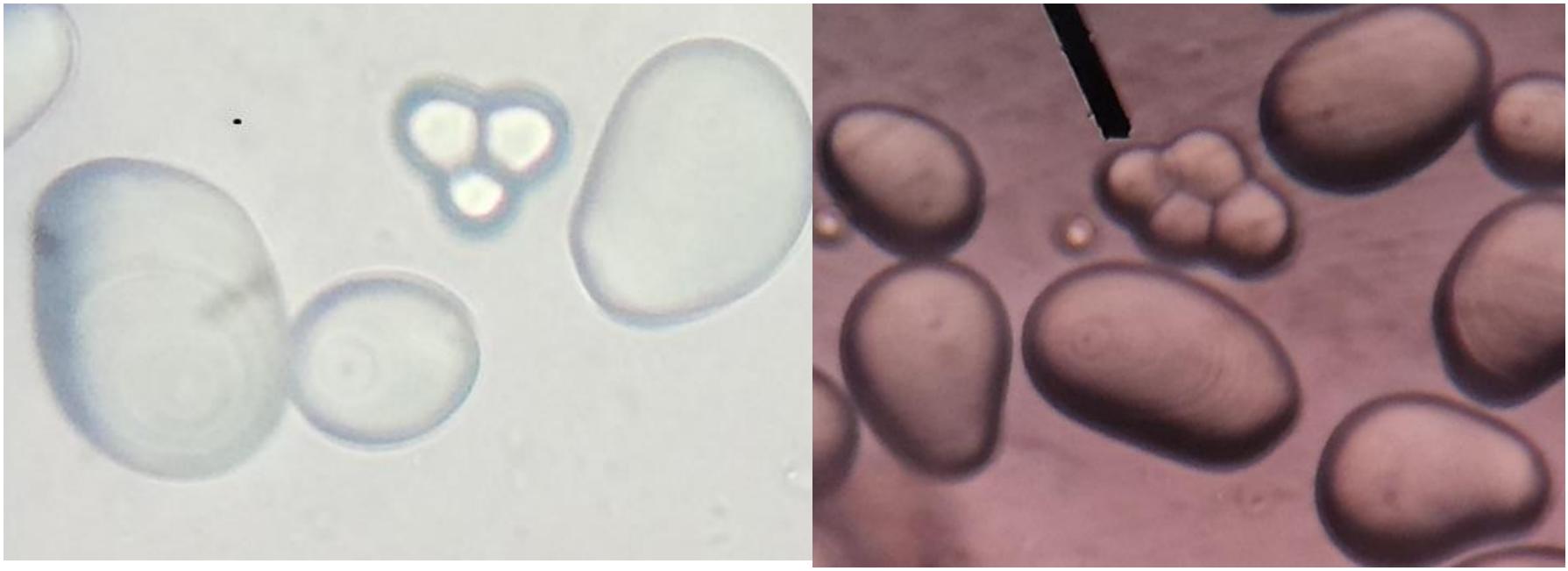






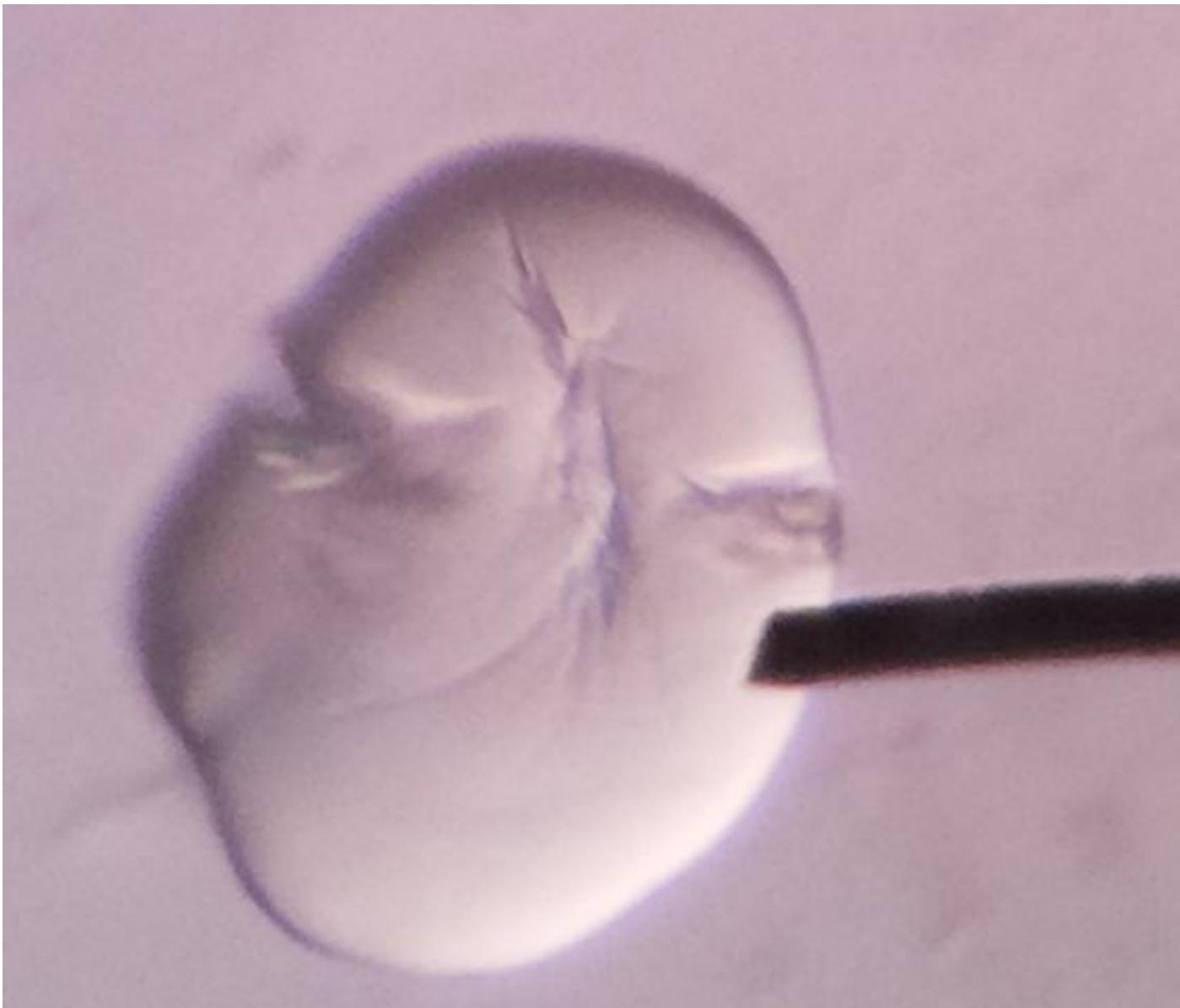


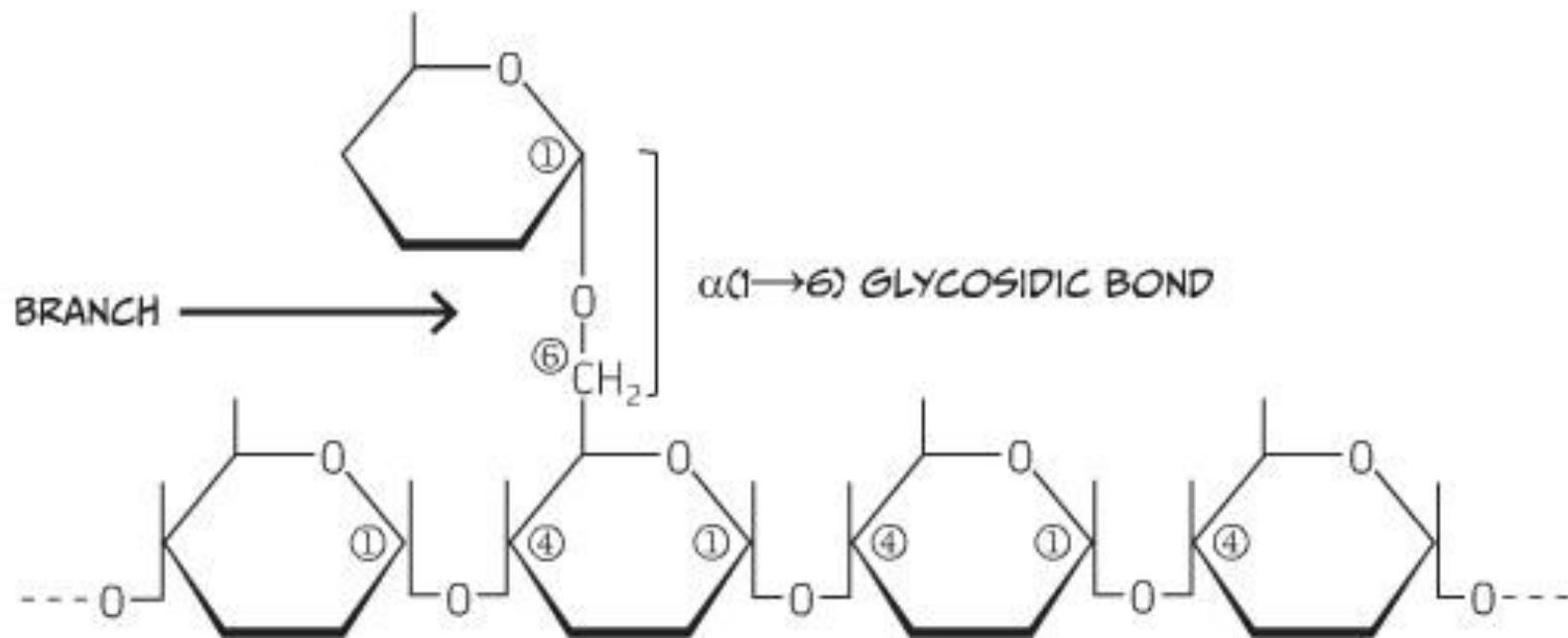
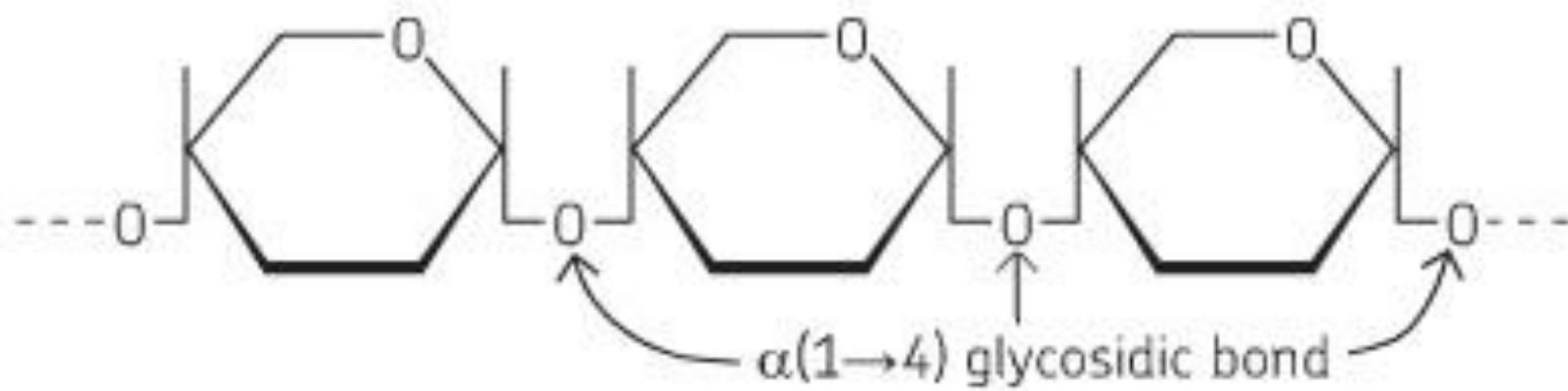












The difference between Amylose and amylopectin

Amylose	Amylopectin
alpha glucose sugar bonded by 1-4 glycosidic bonds.	amylopectin is alpha glucose sugars bonded by 1-4 glycosidic bonds with 1-6 branches
the shape of amylose is straight	the shape of amylopectin is branched
It constitutes about 20-30% of the strach	It constitutes about 70-80% of the strach
With iodine amylose stain blue	With iodine amylose stain reddish brown
More soluble in water	Less soluble in water

Chromoplast

- Family: Solanaceae
- Genus: Solanum
- Species: Solanum lycopersicum
- Organ: fruit
- Medium: water

