

1V: Biljna ćelija

PREPARATI:

- 1) Djelovi biljne ćelije (ćelije epidermisa lukovice crnog luka, *Allium cepa*)
- 2) Skrobna zrna kao produkti protoplasta (krtola krompira, *Solanum tuberosum*)

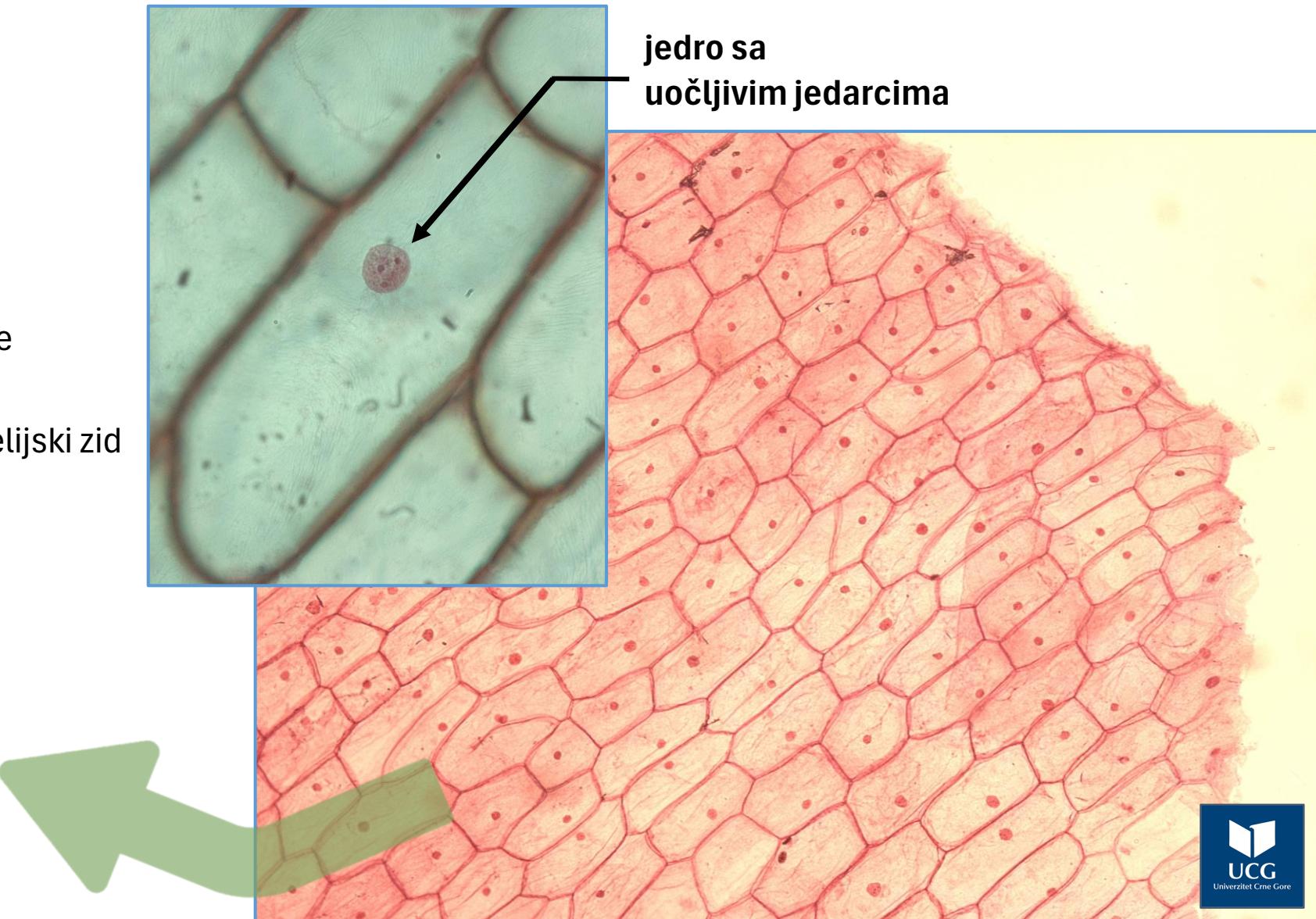
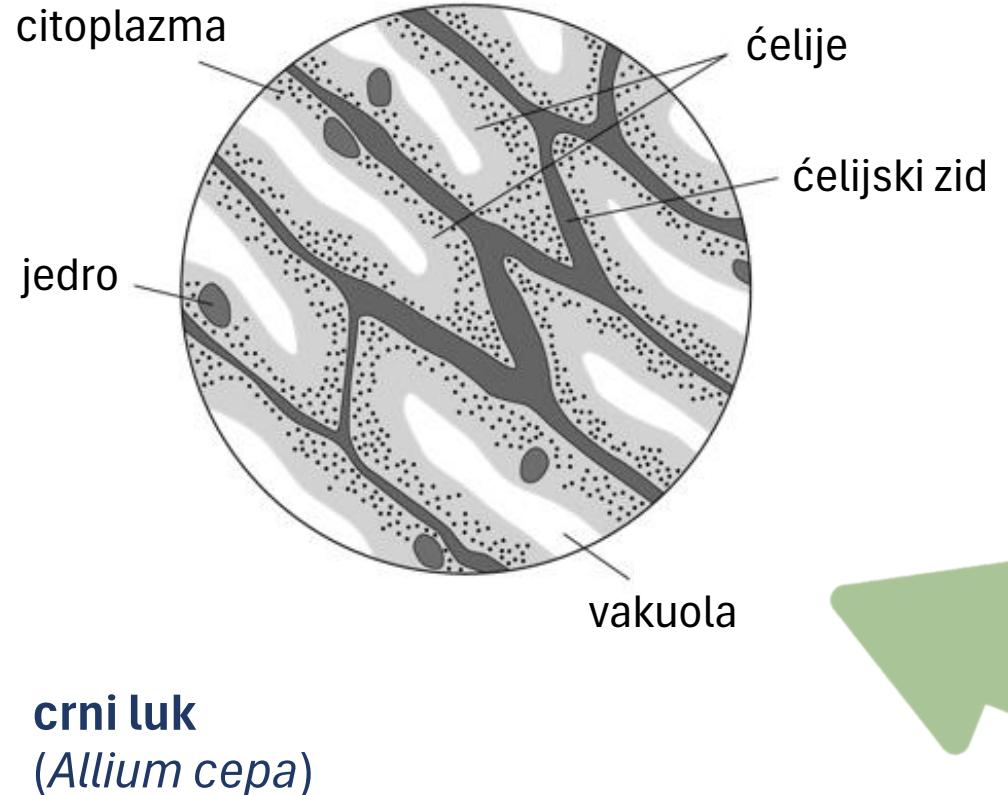
Mijat Božović

BOTANIKA

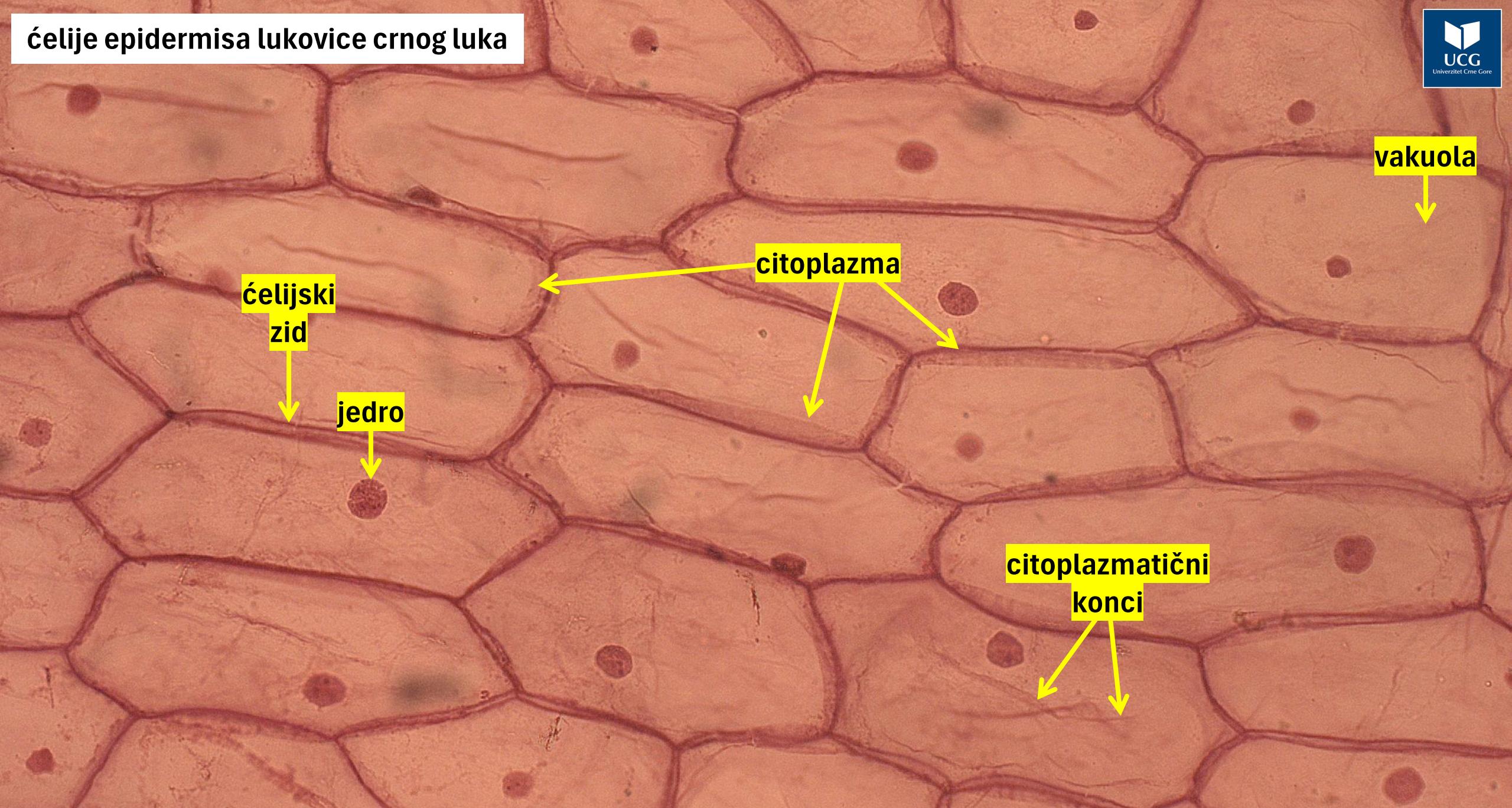
materijal za laboratorijske vježbe



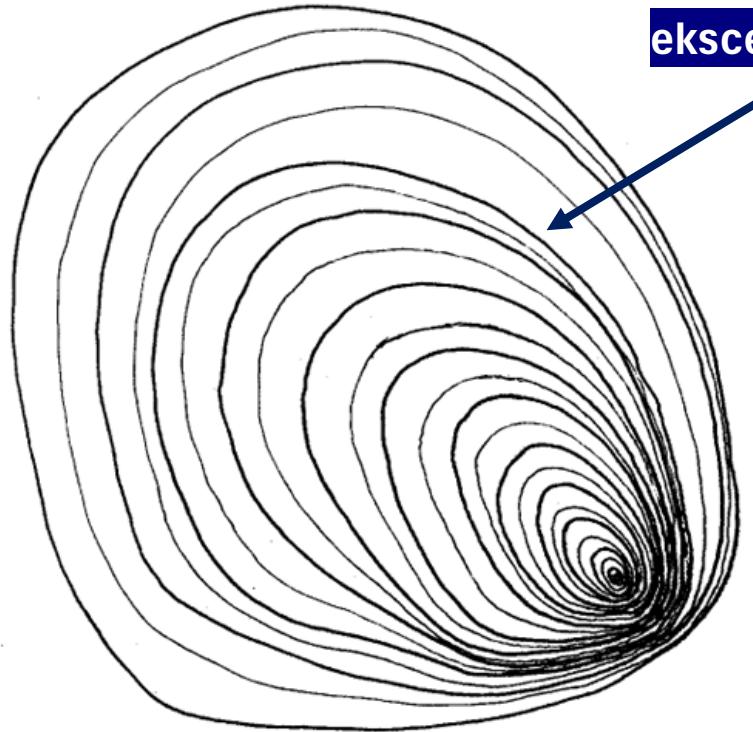
1) Djelovi biljne ćelije



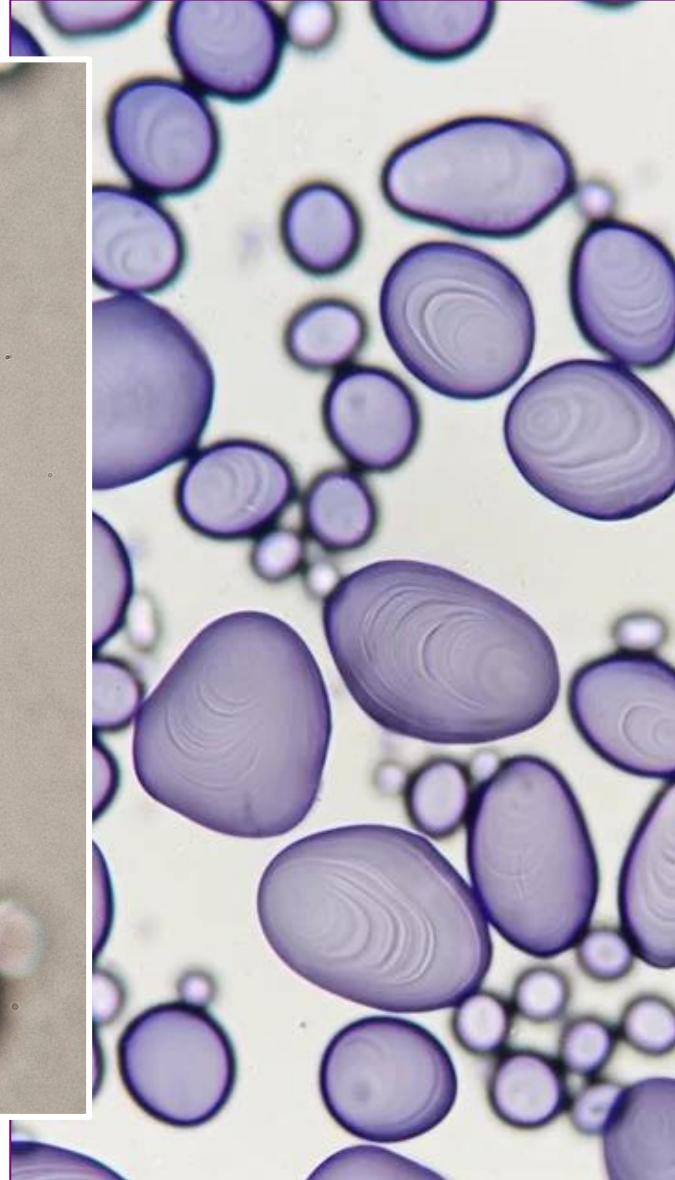
ćelije epidermisa lukovice crnog luka



2) Skrobna zrna kao produkti protoplasta



ekscentrični slojevi

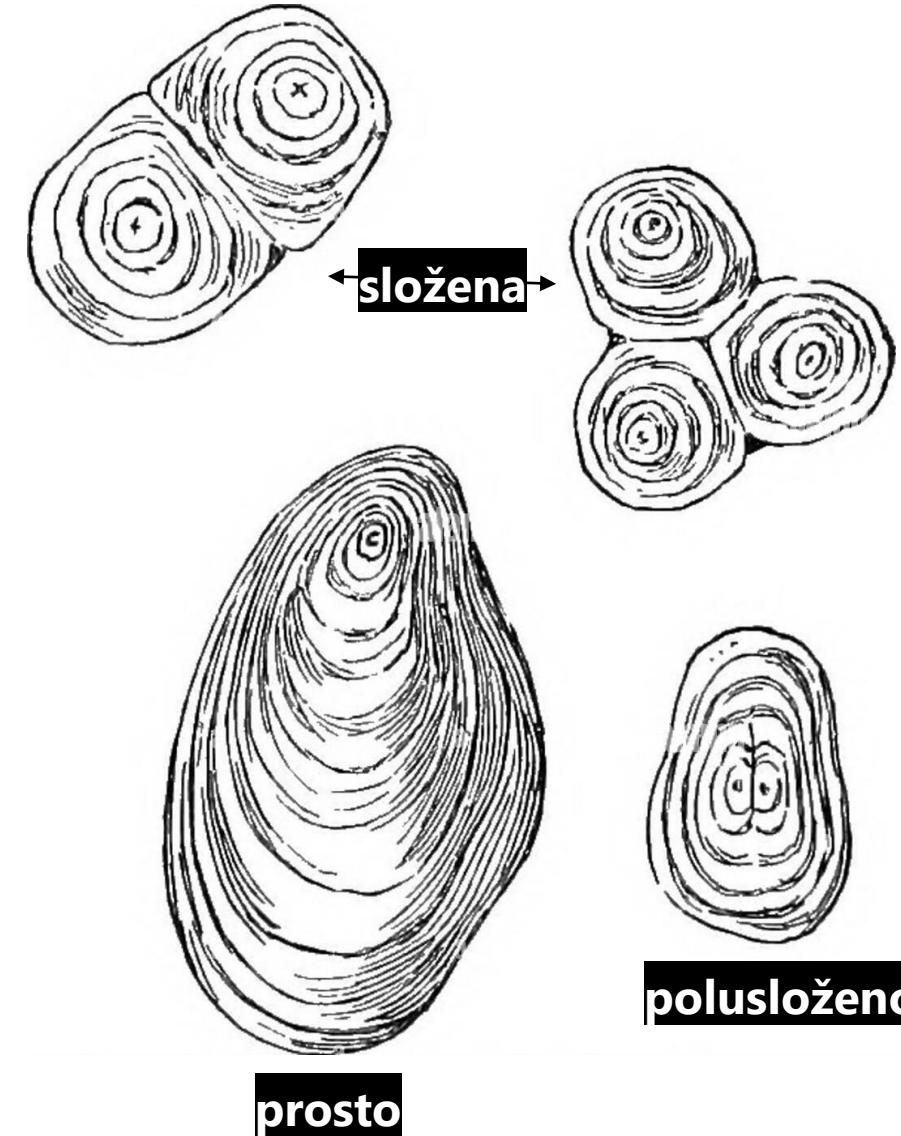
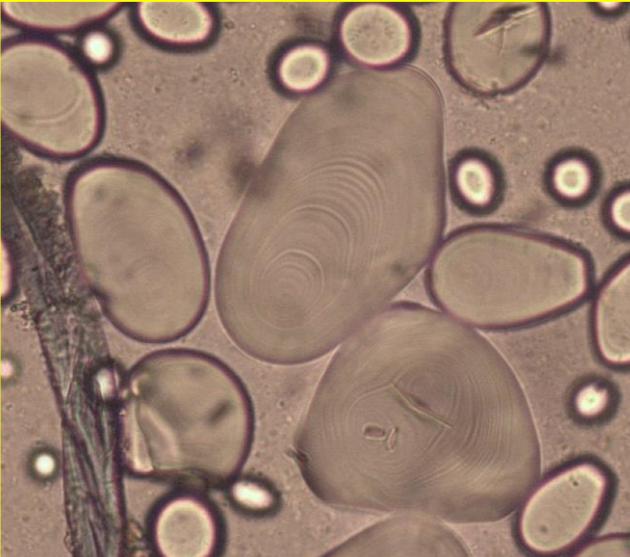


krompir
(*Solanum tuberosum*)

This micrograph shows a dense arrangement of plant cells, likely from a potato tuber. Several large, circular pollen grains are visible, characterized by their distinct double-layered structure and prominent central cavity. Two specific features are highlighted with yellow arrows and labels:

- An arrow points to one of the pollen grains with the label **ekscentrični slojevi** (eccentric layers), indicating the outer wall layers of the pollen grain.
- An arrow points to another pollen grain with the label **jezgro (centar) formiranja** (nucleus (center) formation), pointing to the central cavity where the nucleus is located.

Prosta, složena i polusložena skrobna zrna



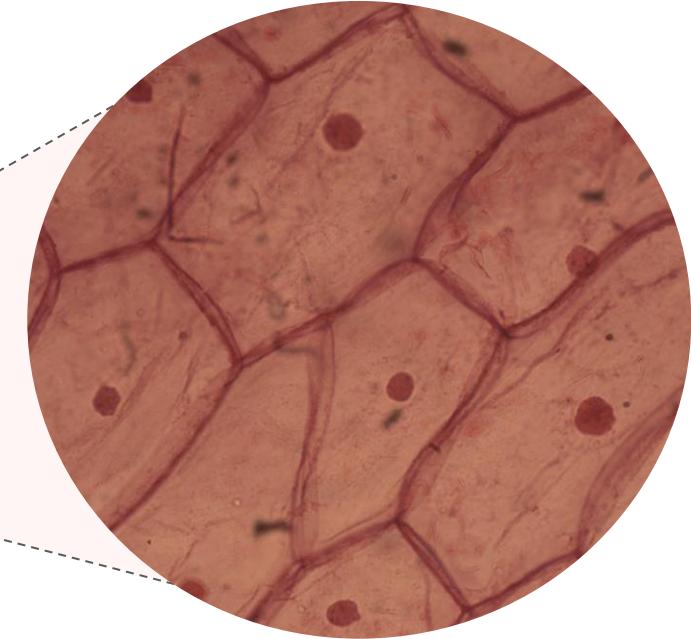
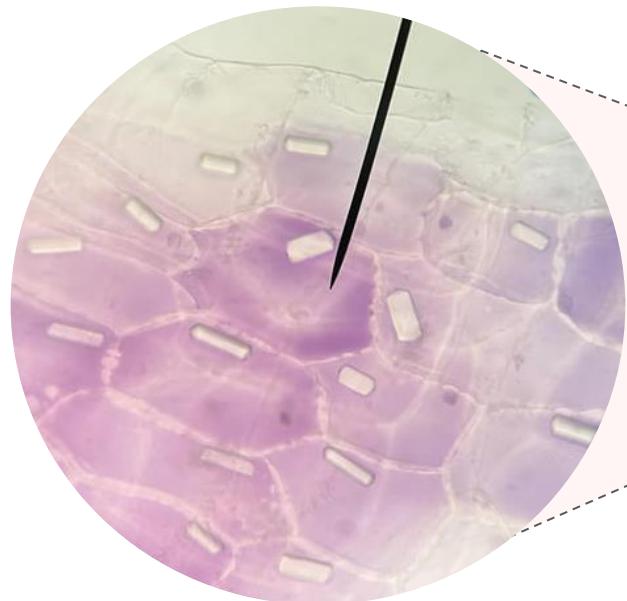
DODATAK 1:

- 1) Lukovica crnog luka: djelovi za mikroskopsko posmatranje**
- 2) Pravljenje nativnog preparata: lukovica crnog luka**
- 3) Pravljenje nativnog preparata: krtola krompira**

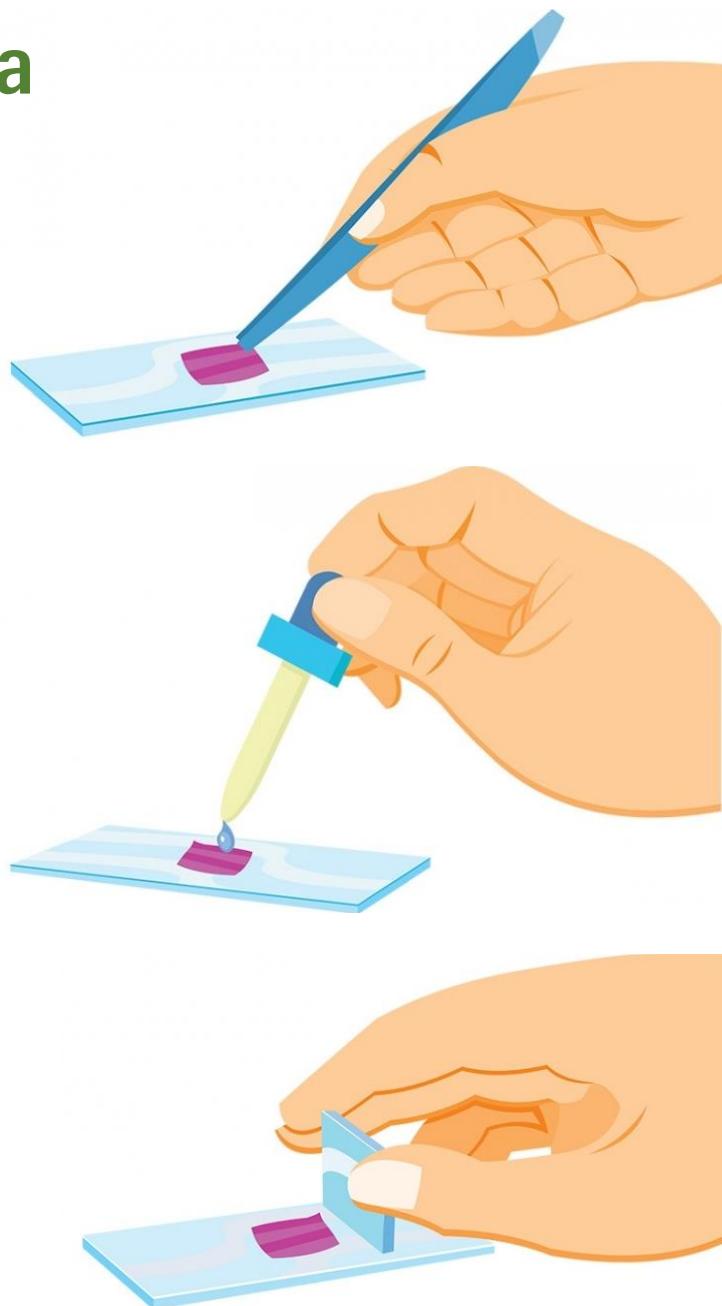
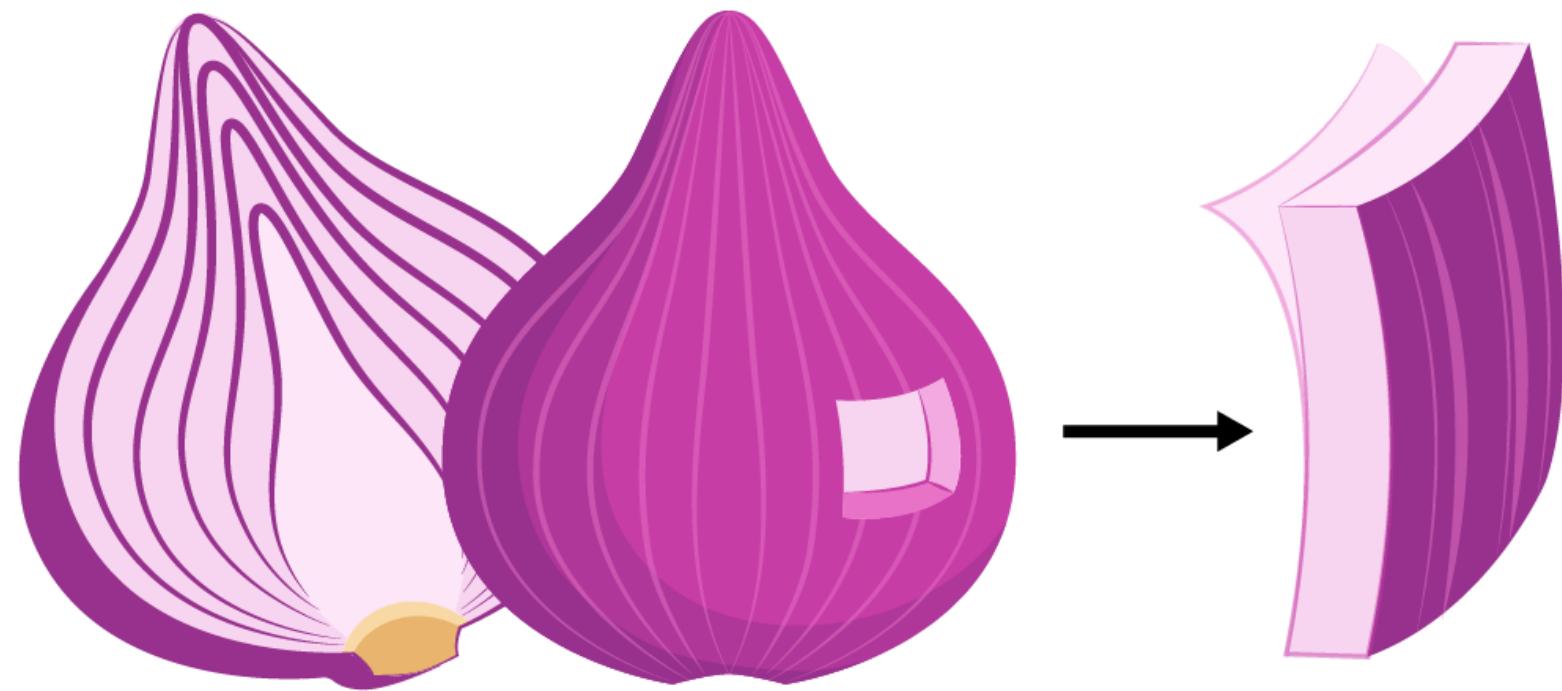
1) Lukovica crnog luka: djelovi za mikroskopsko posmatranje

listovi tunike za posmatranje kristala

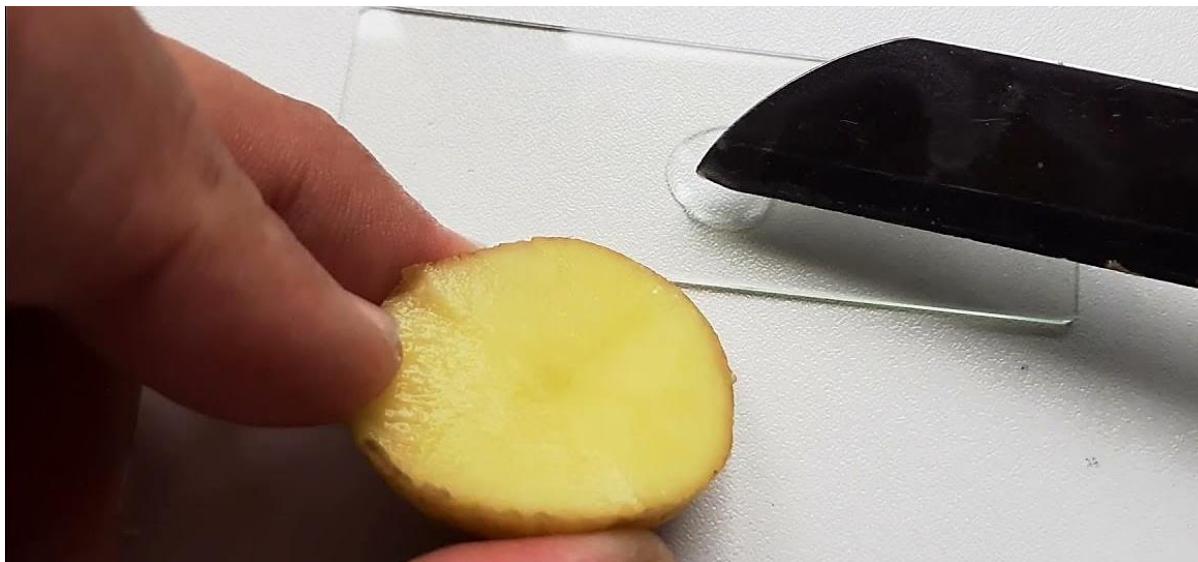
mesnati listovi za posmatranje djelova ćelije



2) Pravljenje nativnog preparata: lukovica crnog luka



3) Pravljenje nativnog preparata: krtola krompira

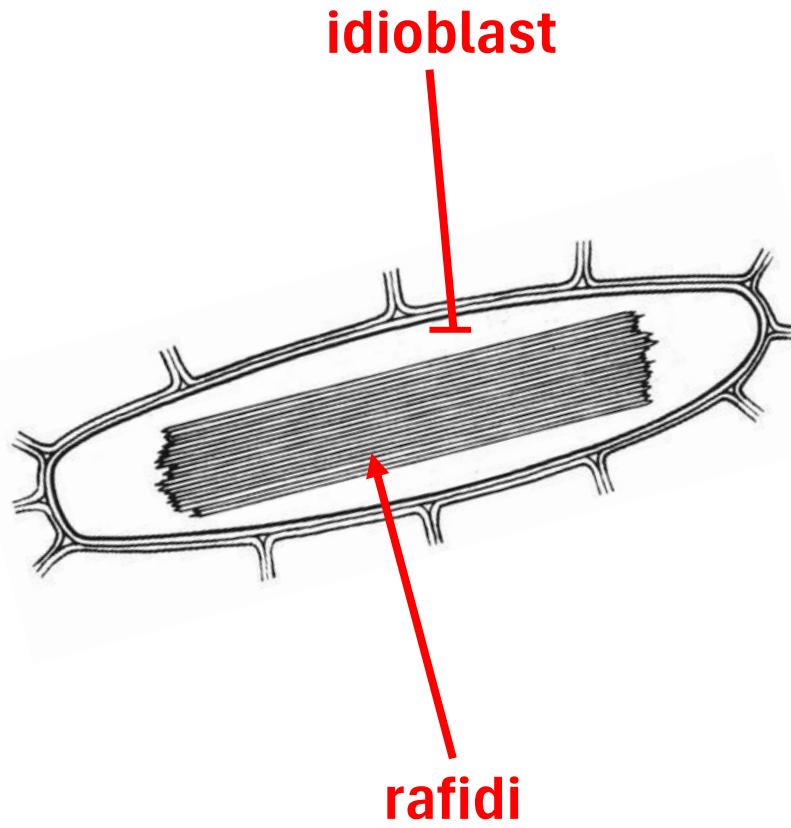


DODATAK 2:

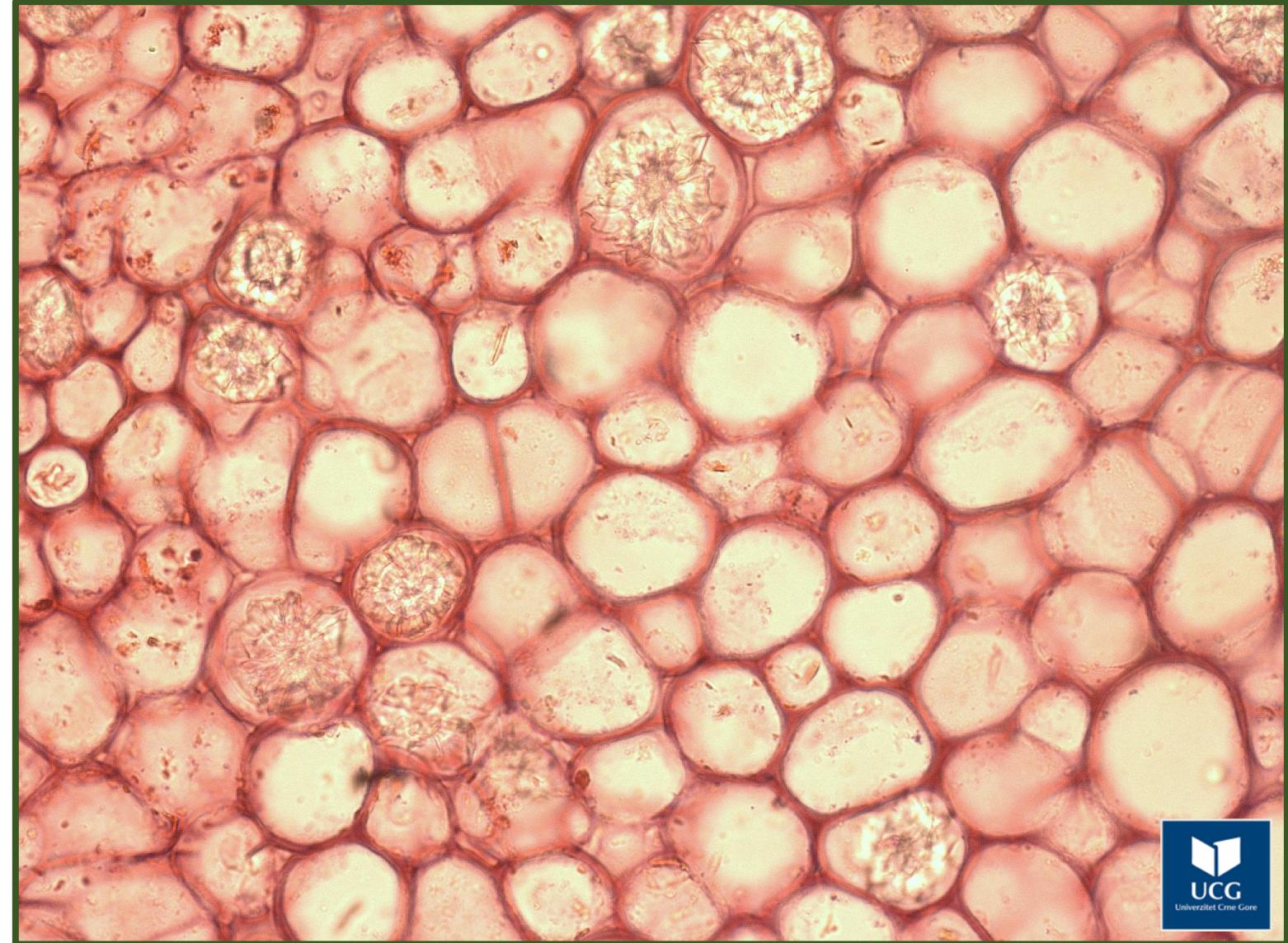
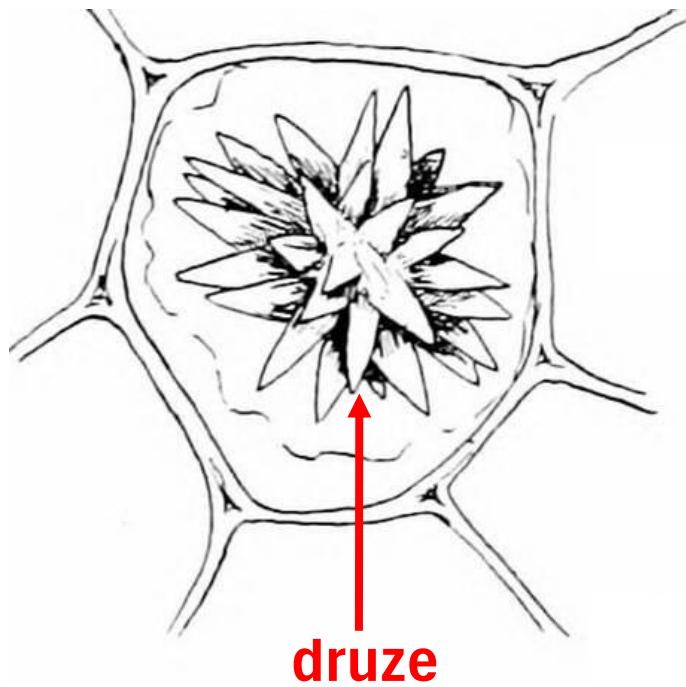
Šeme i mikroskopski preparati za prepoznavanje:

- A) Rafidi** (grupisani kristali) **u parenhimu lista agave** (*Agave* sp.)
- B) Kristalne druze** **u parenhimu lisne drške oraha** (*Juglans regia*)
- C) Pojedinačni kristali** **u ćelijama tunike lukovice crnog luka** (*Allium cepa*)
- D) Cistolit** **u ćelijama epidermisa lista fikusa** (*Ficus elastica*)
- E) Jamice** **u zidu ćelija srži stabla paviti** (*Clematis vitalba*)

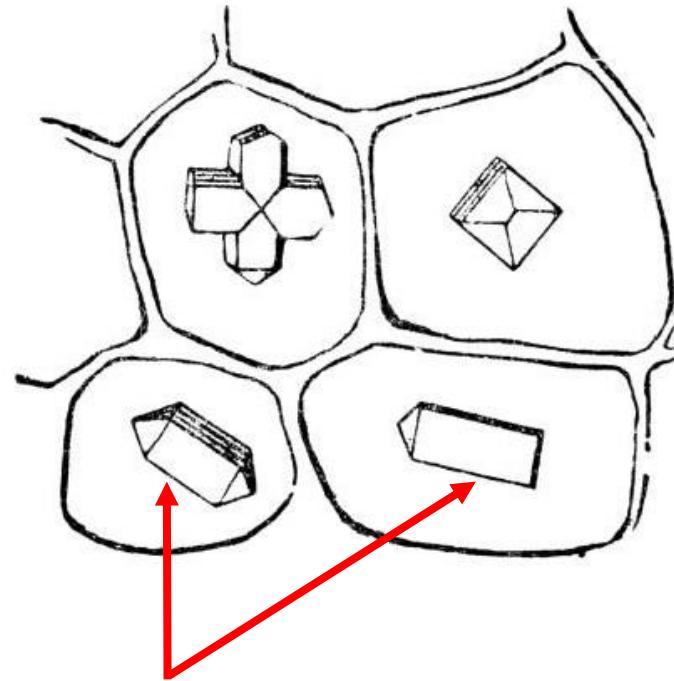
A) Rafidi (grupisani kristali) u parenhimu lista agave (Agave sp.)



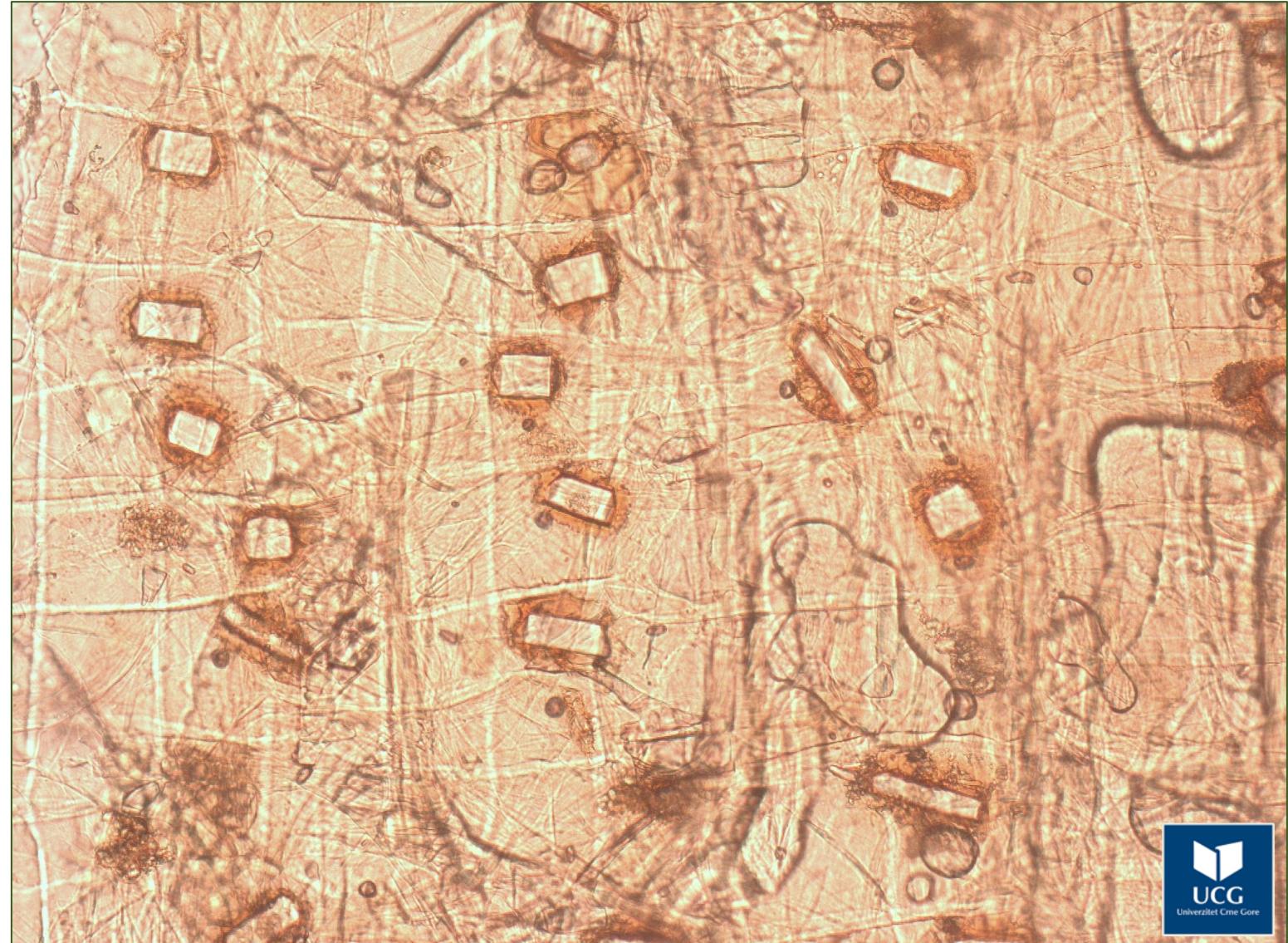
B) Kristalne druze u parenhimu lisne drške oraha (*Juglans regia*)



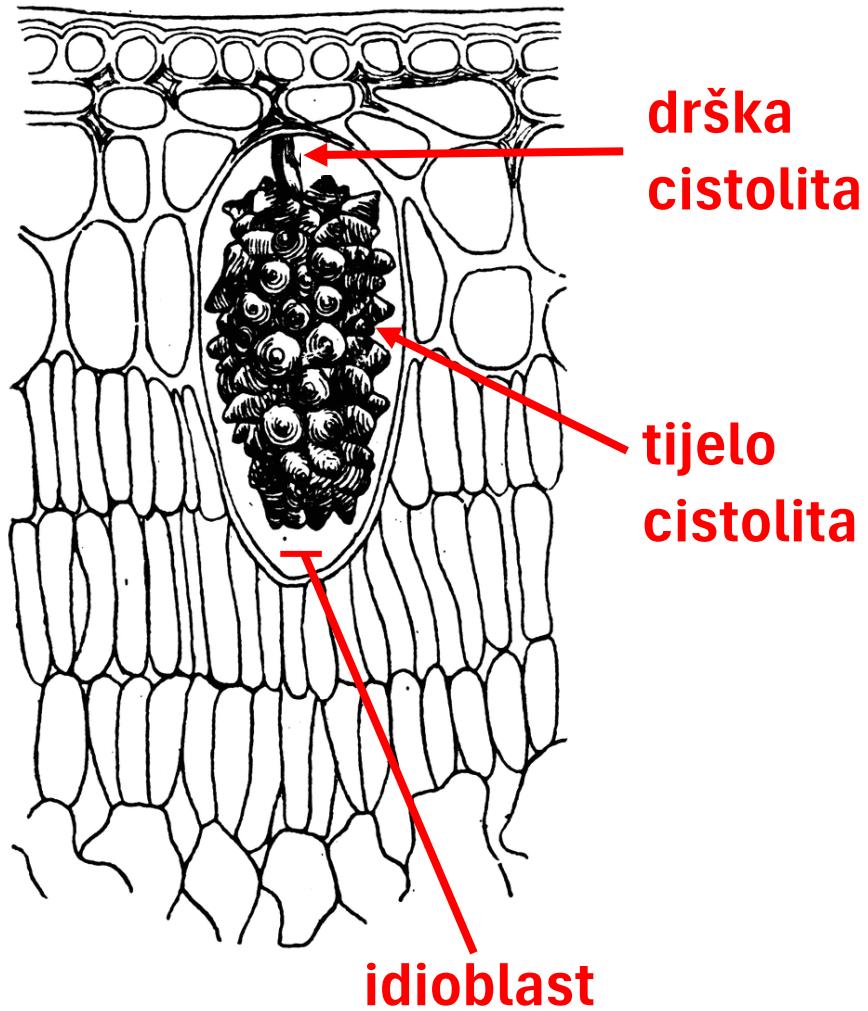
C) Pojedinačni kristali u ćelijama tunike lukovice crnog luka (*Allium cepa*)



pojedinačni
kristali



D) Cistolit u ćelijama epidermisa lista fikusa (*Ficus elastica*)



E) Jamice u zidu ćelija srži stabla paviti (*Clematis vitalba*)

