

# Eudicotyle- prave dikotiledone biljke

## **Bazalne eudikotile**

(Ranunculanae, Proteanae, Buxanae, Trochodendranae)

## **Središnje eudikotile**

(Rosanae, Berberidiopsidanae, Santalanae, Caryophyllanae,  
Asteranae)

# Bazalne dikotile, odabrani predstavnici

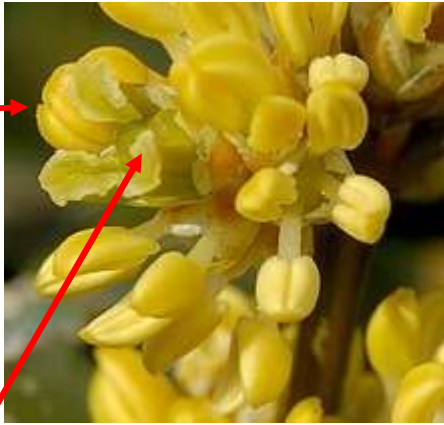
- Buxanae, Buxales, Buxaceae
- Proteanae, Protelaes, Platanaceae
- Ranunculanae, Ranunculales, Berberidaceae, Fumariaceae, Papaveraceae, Ranunculaceae

# Buxaceae

*Buxus sempervirens* = šimšir

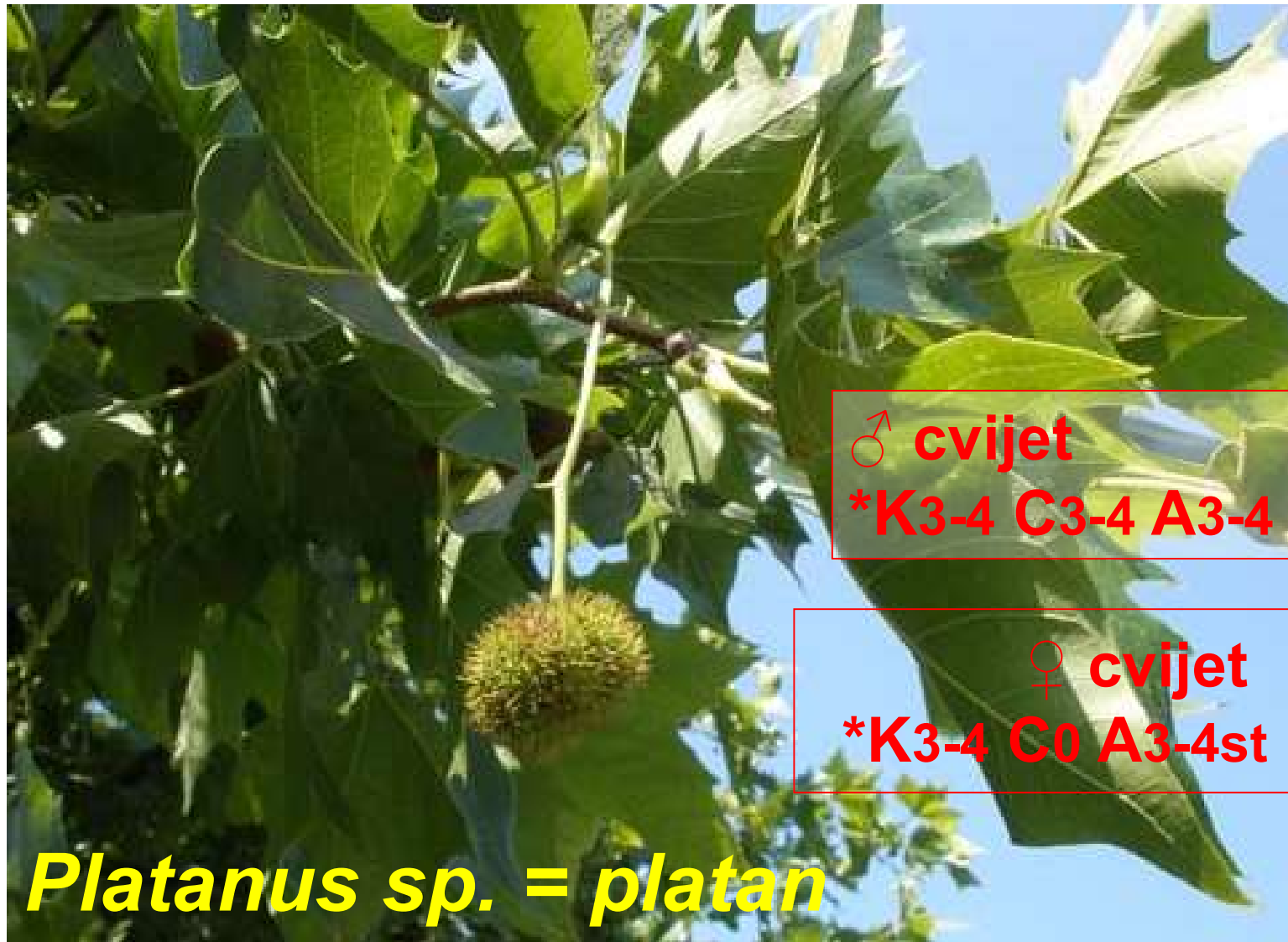


♂ cvijet  
\*P<sub>2+2</sub> A<sub>2+2</sub> G<sub>0</sub>



♀ cvijet  
\*P<sub>2+2</sub> A<sub>0</sub> G<sub>(3)</sub>

# Platanaceae



♂ cvijet

\*K3-4 C3-4 A3-4 G0

♀ cvijet

\*K3-4 C0 A3-4st G3-8

*Platanus sp. = platan*



# Berberidaceae



*Epimedium alpinum*

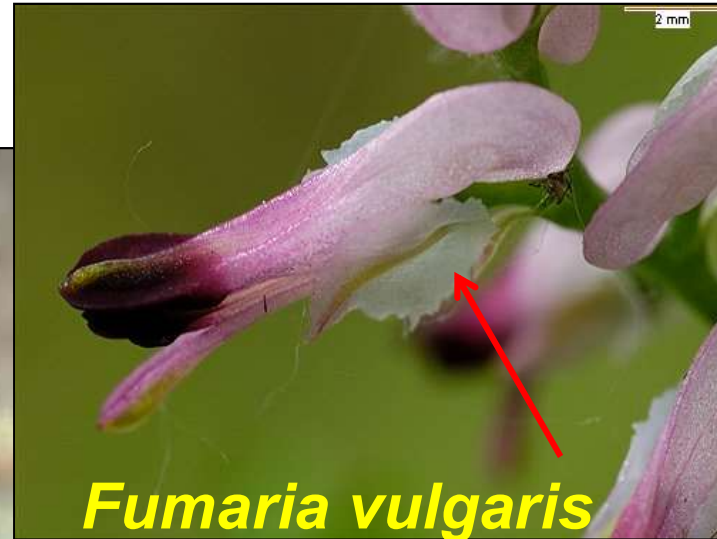
\*K<sub>2+2</sub> C<sub>2+2</sub> A<sub>2+2</sub> G<sub>1</sub>

*Mahonia aquifolium*



# Fumariaceae

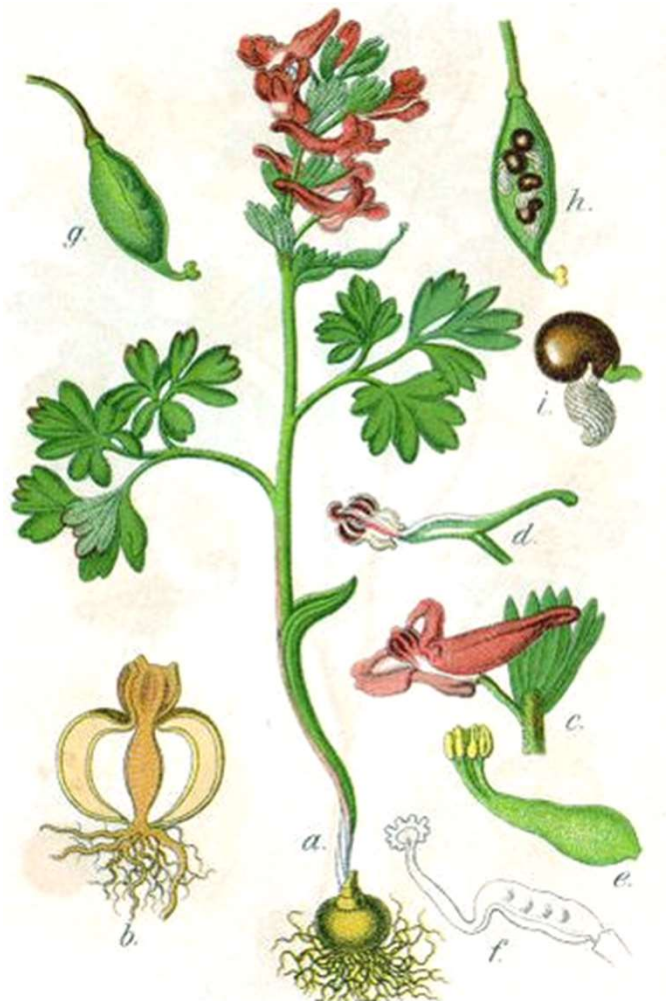
$\uparrow K2 C2+2 A(3)+(3) G(2)/$





*Corydalis solida*

*Corydalis cava*

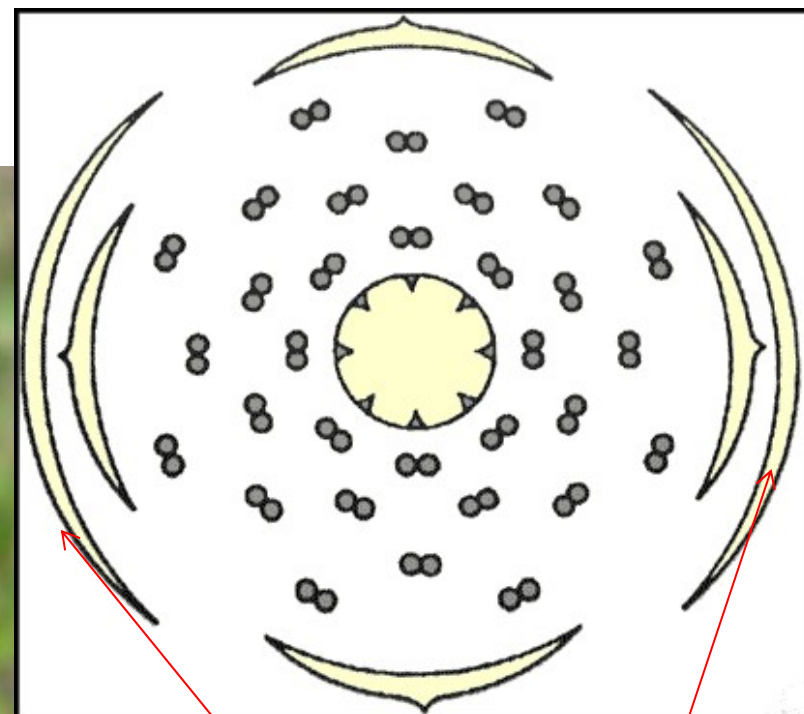


# Papaveraceae



*Papaver rhoeas*

\*K2 C2+2 A ∞ G(∞)/



Kratkotrajna čašica

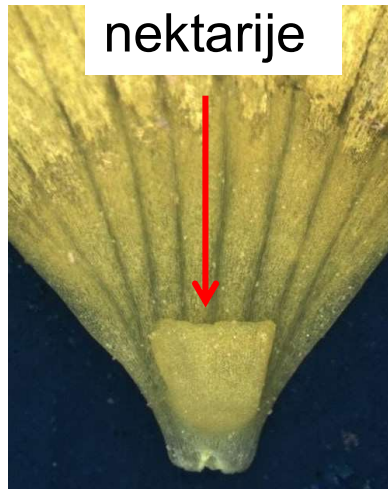


\*K2 C2+2 A ∞ G(2)/

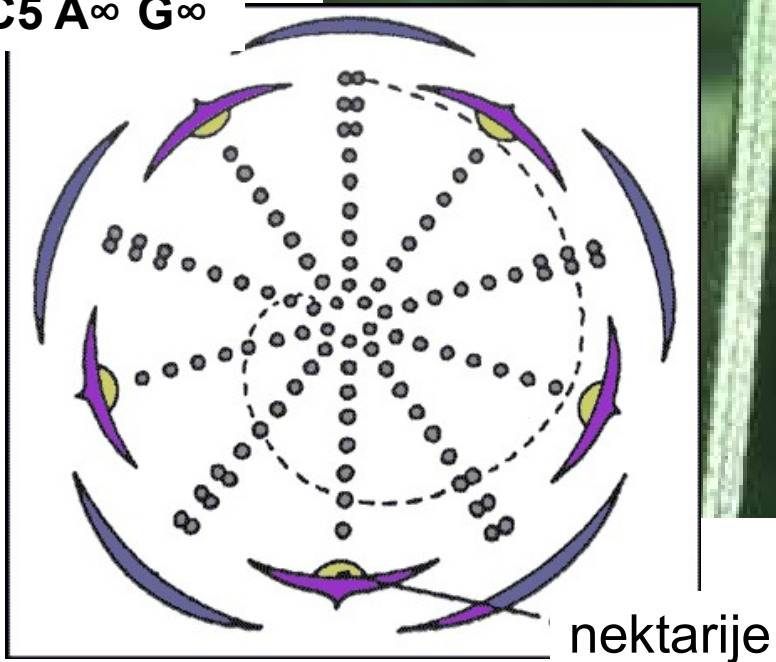


# Ranunculaceae

K3-15 C2-25 A $\infty$  G  $\infty$   
P5-6 A5- $\infty$  G1-  $\infty$



\*K5 C5 A $\infty$  G $\infty$



*Ranunculus spp.*- taksonimski markeri...





*Ranunculus ficaria*



\*K3 C8-12 A $\infty$  G $\infty$



← vodeni ljutići



Ranunculus aquatilis grupa



*Aconitum* sp.- cvijet bez ostruge



**Cvijet zigomorfan!!!**



*Consolida* sp.- cvijet sa ostrugom



**Cvijet aktinomorfan!!!**



*Anemone hortensis*

plodići bez dugog dlakavog vrata

lapovi korolinični



*Pulsatilla sp.*

plodići sa dugim dlakavim vratom

*Cvijet aktinomorfan!!!*



*Clematis vitalba- pavit*



cvjetovi tetramerni,  
listovi naspramni



*Aquilegia sp.*  
*kandilka*







Helleborus odorus- kukurijek



*Nigella sp. – mačkovi brkovi*



*Trollius europaeus- jablan*

# Središnje dikotile

odabrani predstavnici

**Dilleniales** (Dilleniaceae)

**Caryophyllales** (Aizoaceae, Amaranthaceae, Cactaceae, Droseraceae, Chenopodiaceae, Phytolaccaceae, Plumbaginaceae, Polygonaceae, Portulacaceae, Tamaricaceae)

**Santalales** (Santalaceae, Loranthaceae)

**Saxifragales** (Crassulaceae, Grossulariaceae, Haloragaceae, Saxifragaceae, Paeoniaceae, Saxifragaceae)



# Dilleniaceae



*Dillenia philippinensis*

**\*K5 C5 A $\infty$  G $\infty$**



# Aizoaceae

*Carpobrotus edulis*





# Cactaceae

Opuntia sp.

\*P $\infty$  A $\infty$  G/(3- $\infty$ )





# Phytolaccaceae



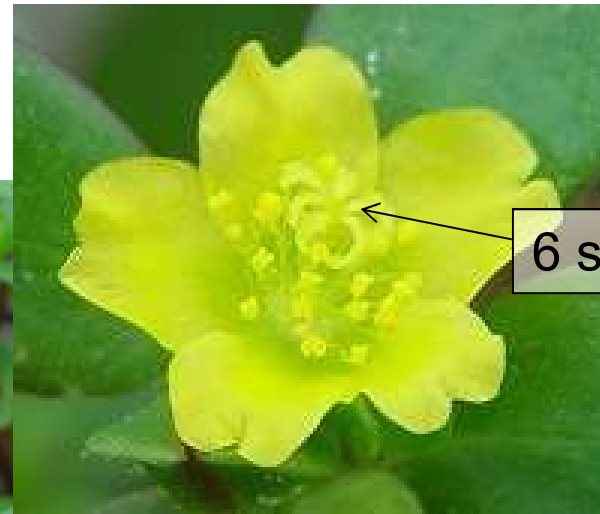
**Phytolacca americana**

**\*P5 A10 G 6**

# Portulacaceae



**Portulaca oleracea**



6 stigmi

K2 C5 A $\infty$  G

**Listići čašice trajni!!!**

# Caryophyllaceae, $K(3)4-5$ $C0-5$ $A1-10$



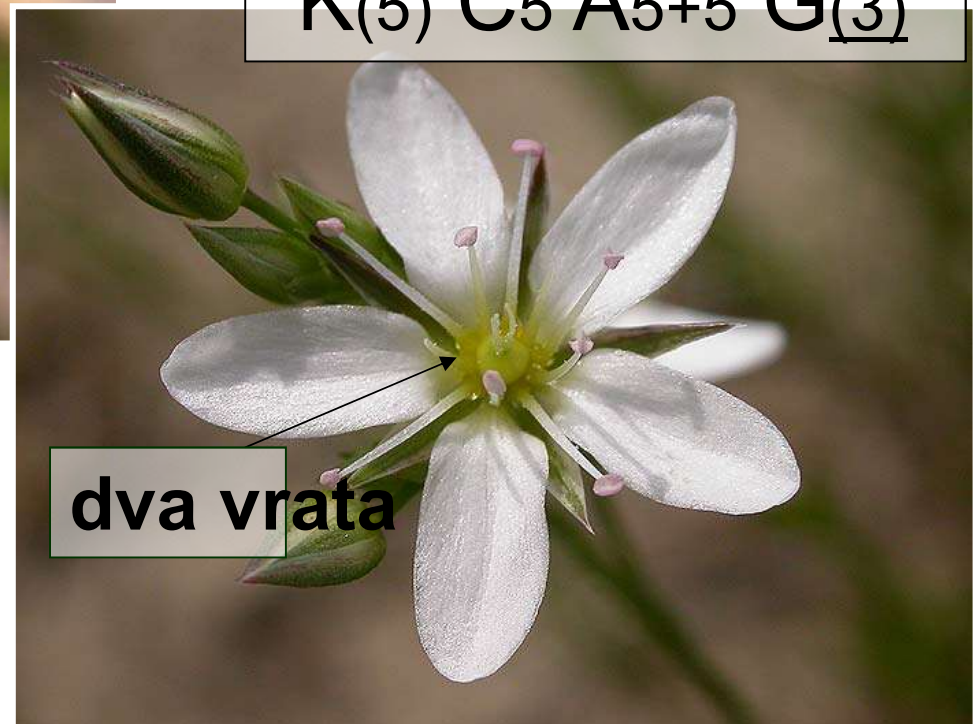
pet vratova

Cerastium sp.

\* $K(5)$  [ $C5$   $A5+5$ ]  $G(5)$

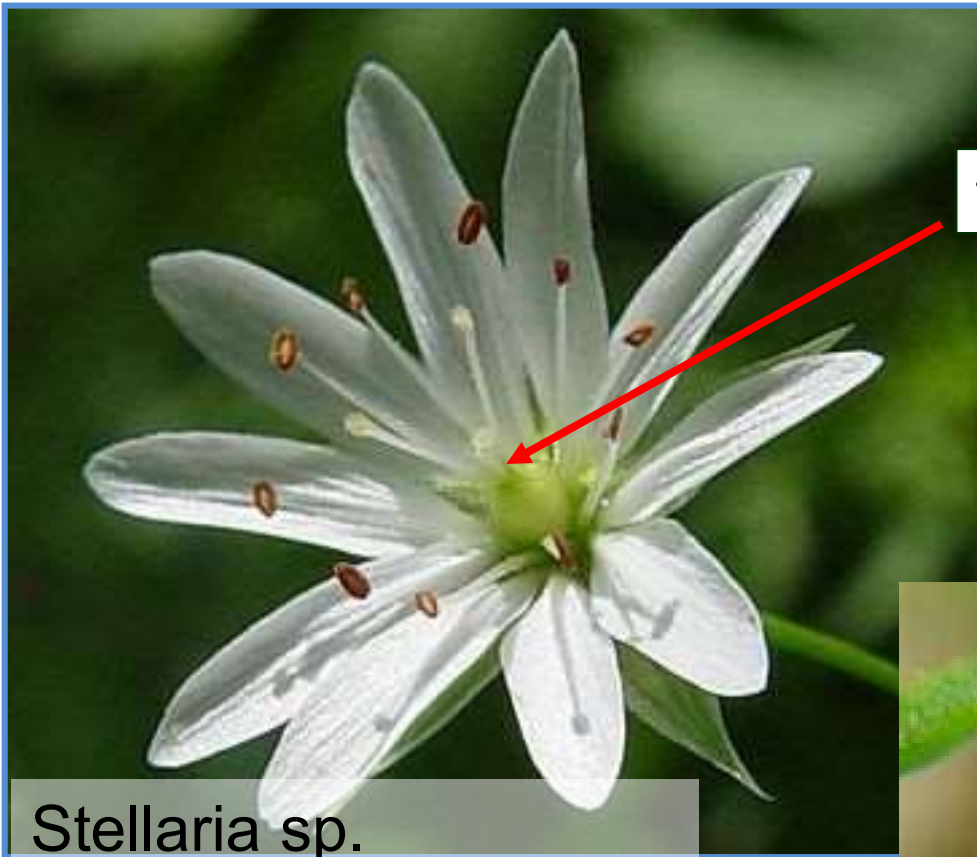
Minuartia sp.

\* $K(5)$   $C5$   $A5+5$   $G(3)$



dva vrata





tri vrata

Stellaria sp.

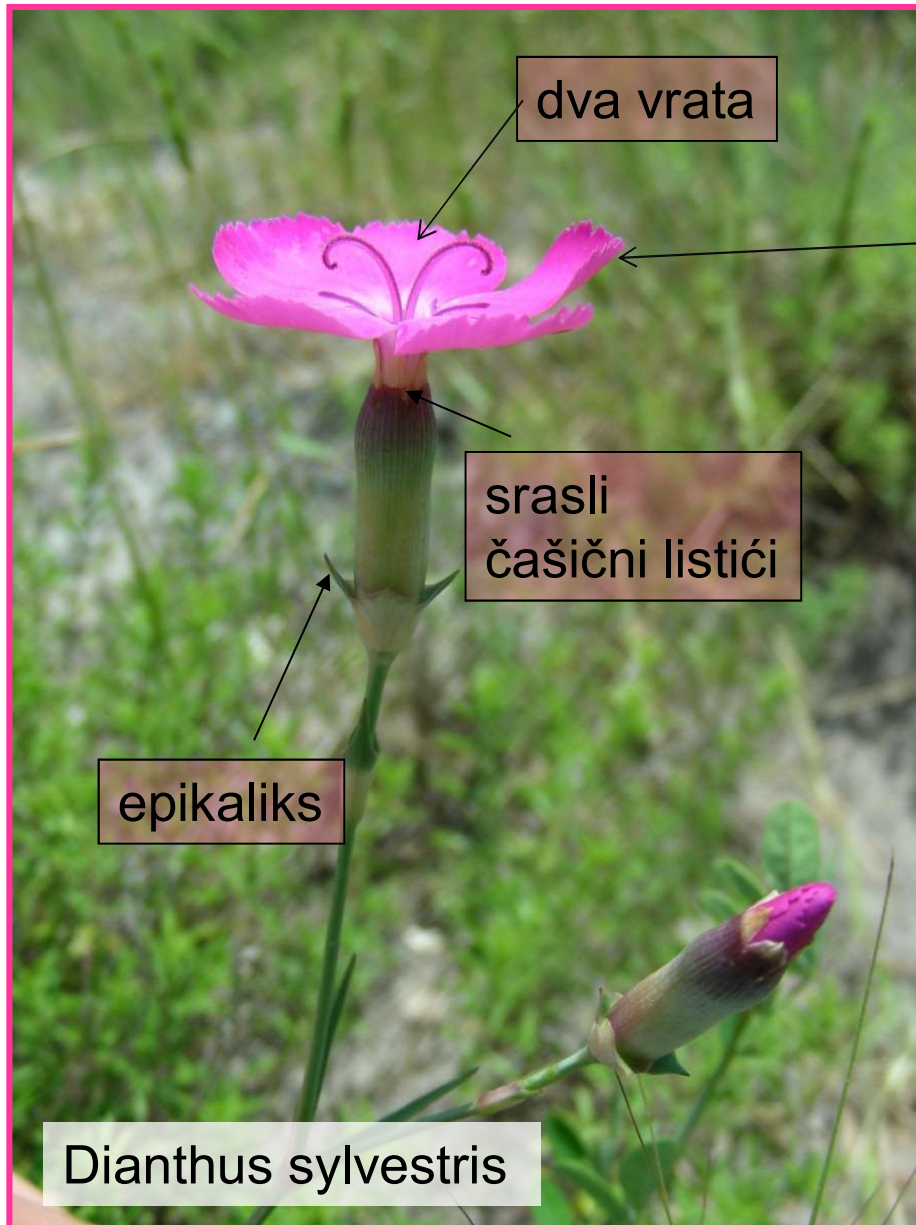
\*K(5) C5 A5+5 G(3)



Latice redukovane

Sagina apetala

Dianthus sp. (karanfil), \* $K_{(5)}$   $C_5$   $A_{(5+5)}$   $\underline{G}_{(2)}$





Dianthus sp. (karanfil)

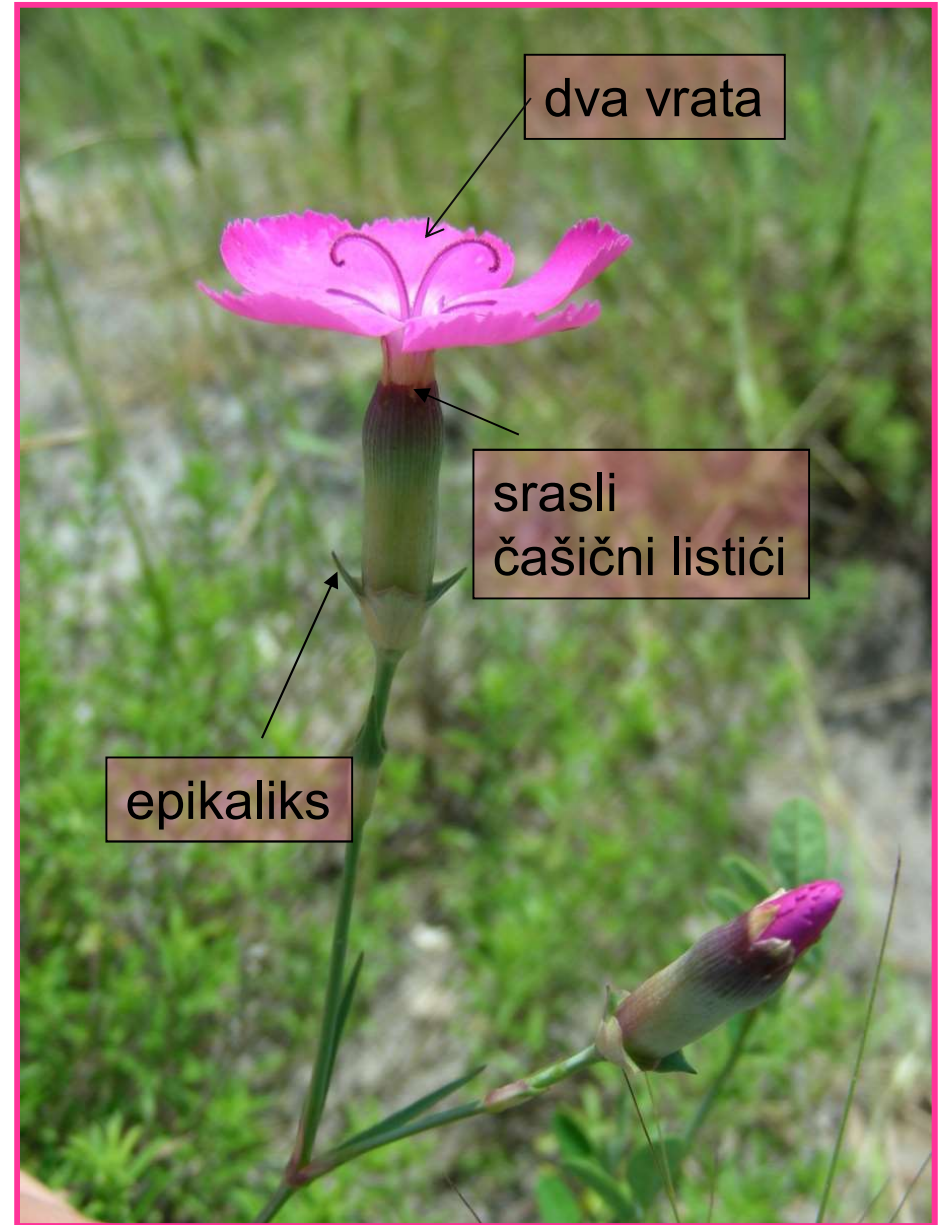
\* $K_{(5)}$   $C_5$   $A_{(5+5)}$   $G_{(2)}$



nazubljene latice



duboko usječene latice



dva vrata

srasli  
časični lističi

epikaliks



Kohlrauschia sp.



dva vrata

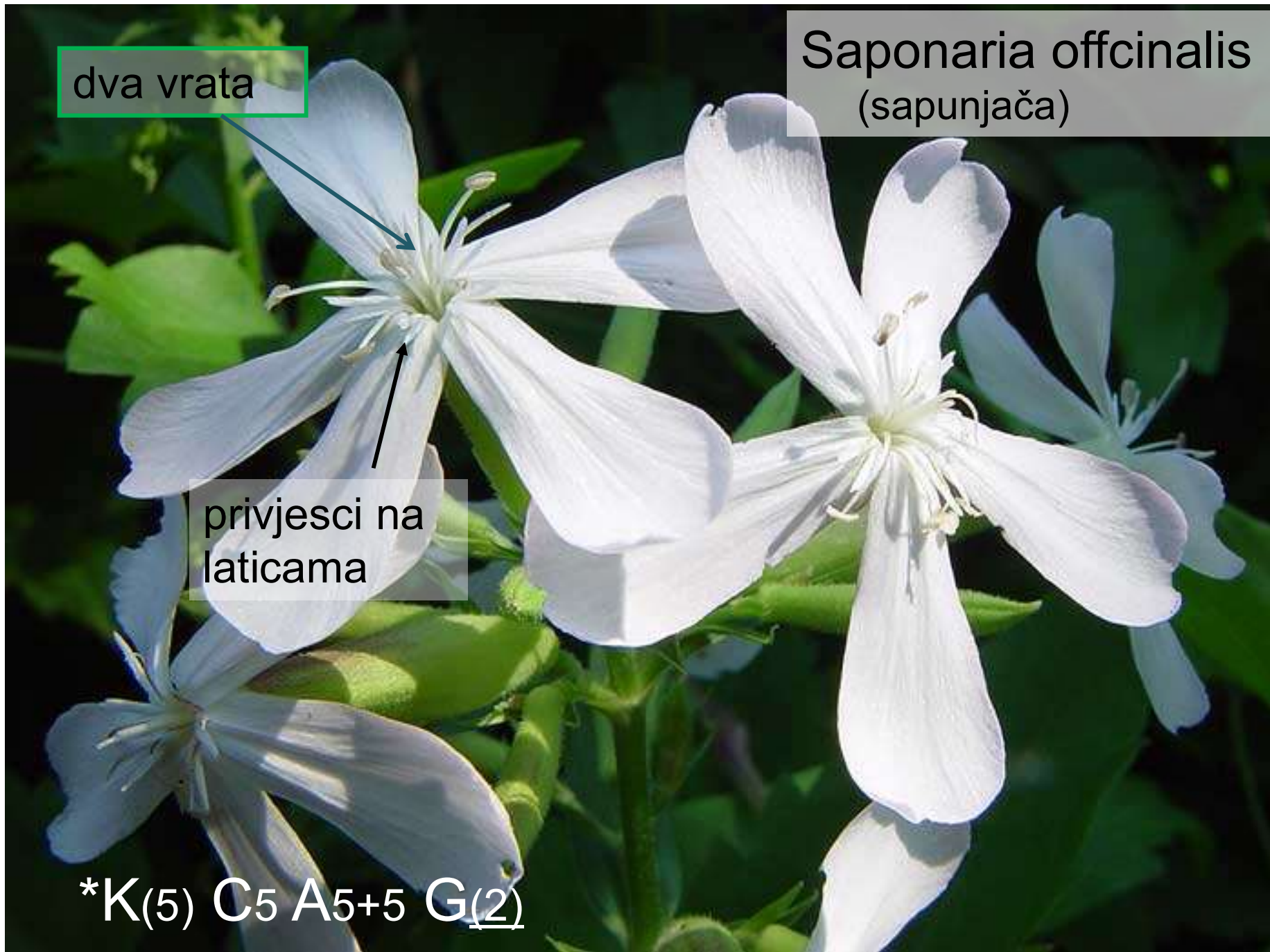
suhokožičaste ljuske koje obavijaju cvjetove,  
epikaliks postoji!!!

*Saponaria officinalis*  
(sapunjača)

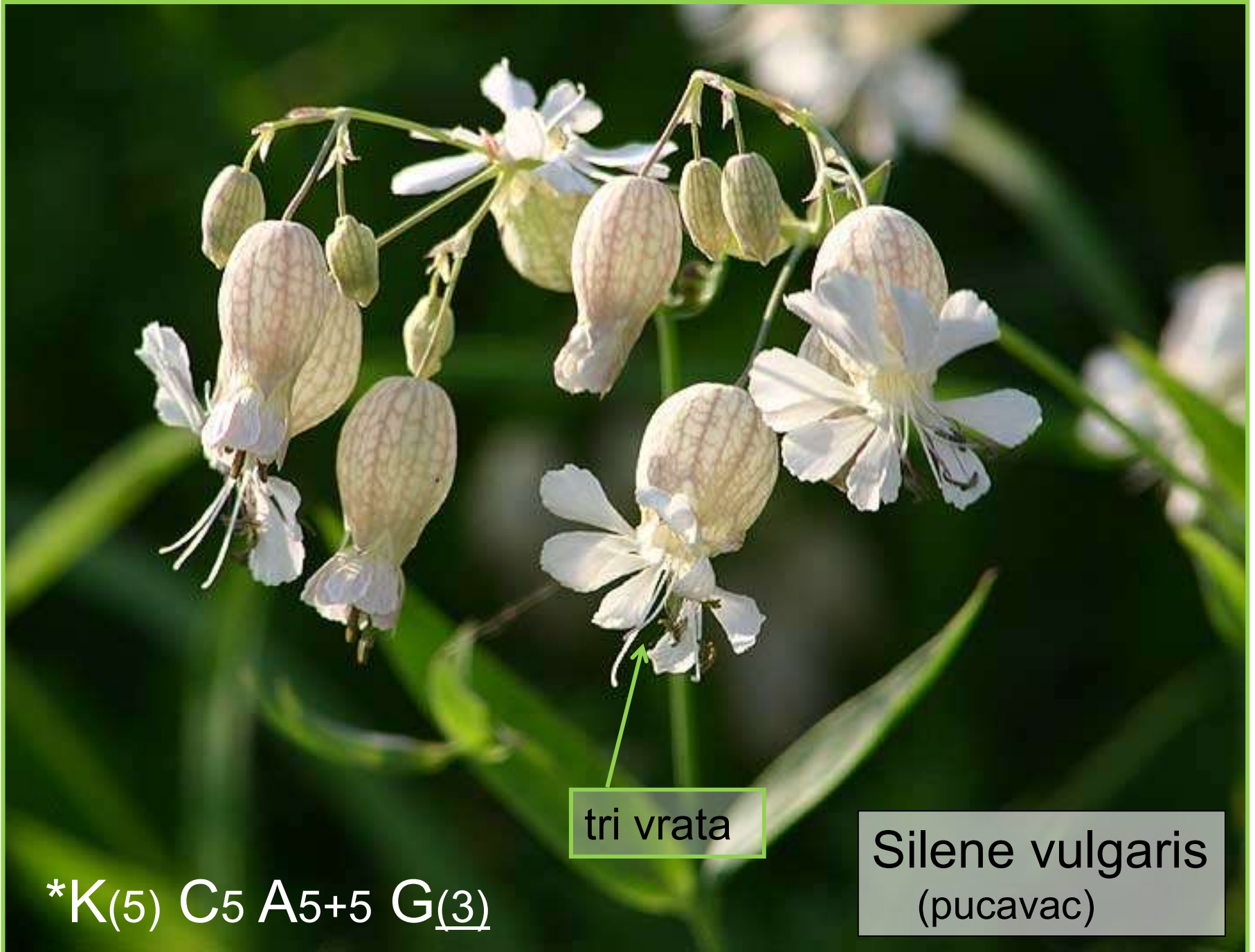
dva vrata

privjesci na  
laticama

\*K(5) C5 A5+5 G(2)







\*K(5) C5 A5+5 G(3)

tri vrata

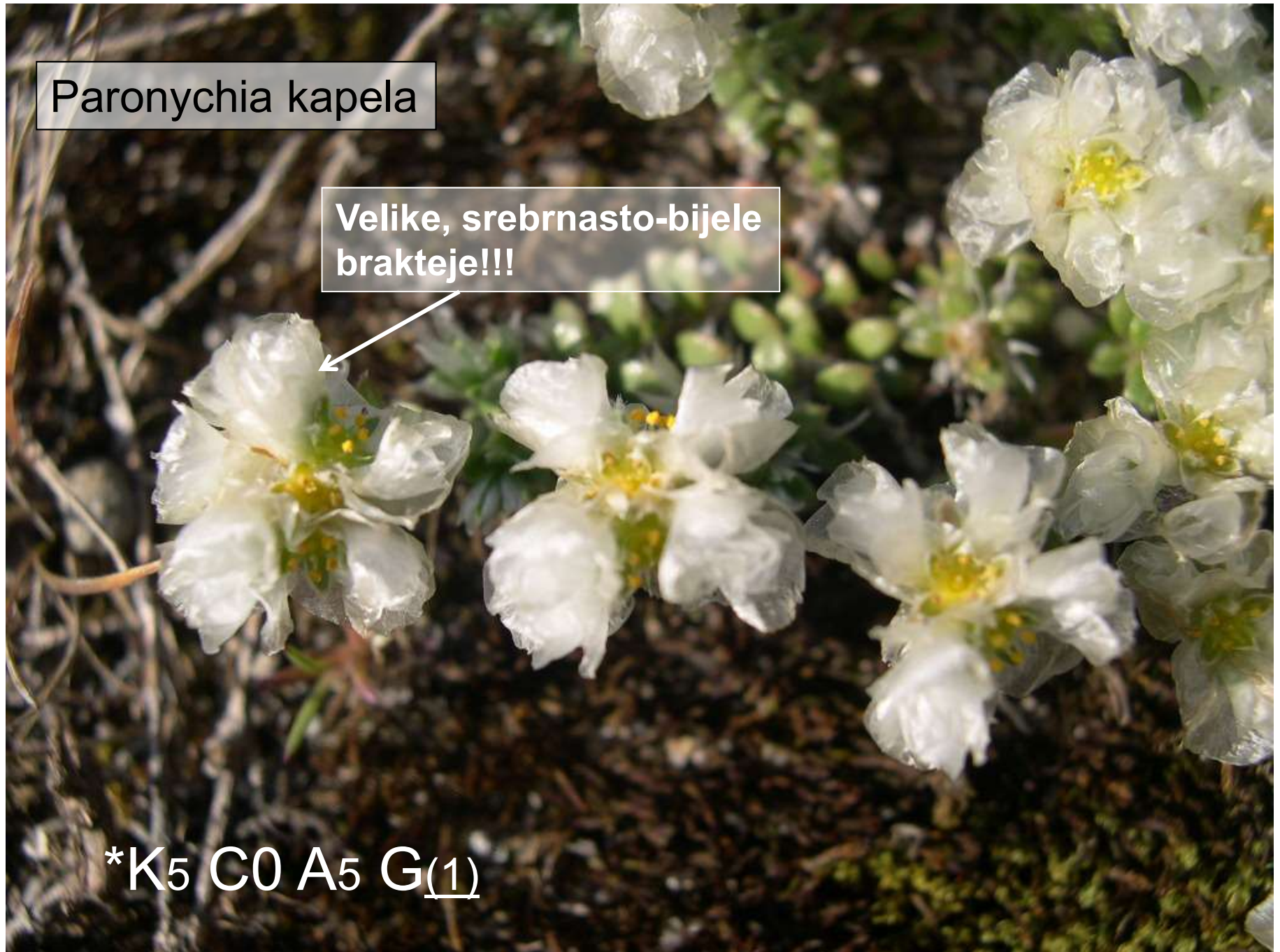
Silene vulgaris  
(pucavac)



Paronychia kapela

Velike, srebrnasto-bijele  
brakteje!!!

\*K<sub>5</sub> C<sub>0</sub> A<sub>5</sub> G<sub>(1)</sub>



*Herniaria glabra*

Brakteje  
nisu  
upadljive!!!





# Amaranthaceae

P5 A5 G(3)



**Amaranthus retroflexus**  
**štir**



**Amaranthus**  
**caudatus**



# Chenopodiaceae \*P<sub>3-5</sub> A<sub>(1)-5</sub> (8-9) G<sub>(2-3)(-6)</sub>



Člankovito  
stablo

Salicornia herbacea, P<sub>3-4</sub> A<sub>2</sub> G<sub>(2)</sub>



Listovi debeli, poluvaljkasti



Beta vulgaris- repa



Beta trigyna-  
cvekla

\*P<sub>5</sub> A<sub>(5)</sub> G<sub>(3)</sub>

Spinacia oleracea- spanač



\*P<sub>(4)</sub> A<sub>4</sub>

\*P<sub>(2-4)</sub> G<sub>(4)</sub>



\*P(2-5) A5 G(2-3)

\*P(2)-3 A0 G(2)



Chenopodium album  
loboda



Chenopodium bonus-henricus

# Droseraceae



*Drosera rotundifolia*

\*K5 C5 A5 G(3)

*Dionaea muscipula*





# Polygonaceae



ohreja



Polygonum aviculare- troskot

Polygonum sp.

\*[P5 A8] G(3)





# Rumex sp.- (štavelj), taksonomski markeri

\*K<sub>3</sub> C<sub>3</sub> A<sub>3+3</sub> G<sub>(3)</sub>



Plodići!





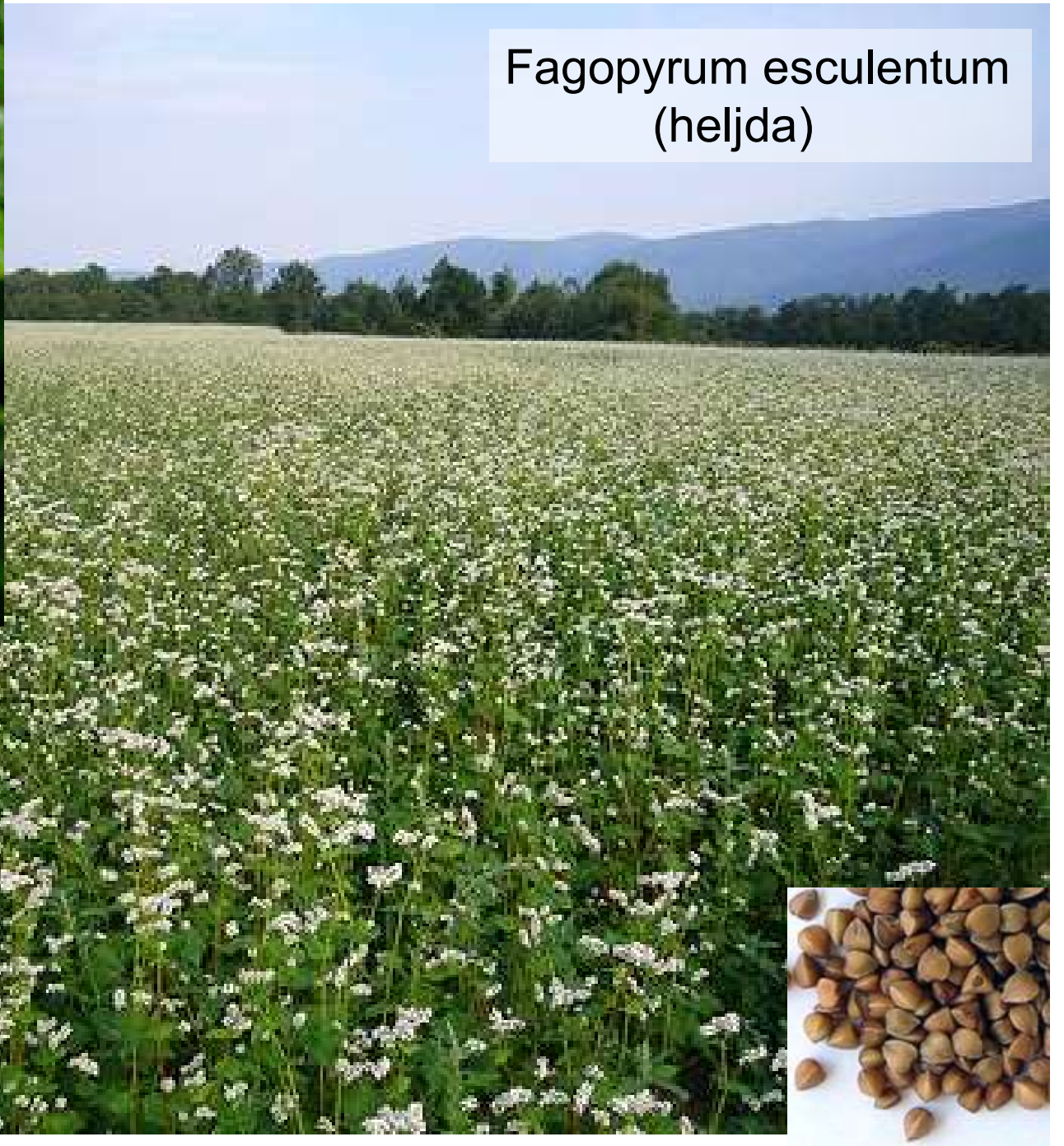
Listovi zaobljeni pri bazi i u obliku gitarice



Kopljasti list



Fagopyrum esculentum  
(heljda)





# Santalaceae



*Thesium sp.*



\* P4-5 A4-5 G/(2)



# Loranthaceae

*Viscum album*- bijela imela





\*K5 C5 A 10 G 5

# Crassulaceae



*Sedum acre*- žednjak



6-20 lapova i  
latica

*Sempervivum* sp.- čuvarkuća

\*K6-20 C6-20 A 12-40 G 12-40



*Cotyledon rupestris*

Latice srasle u  
zvonoliku cijev



# Saxifragaceae



*Saxifraga tridactylites*

\*K5 C5 A10 G(2)

Plodnica  
nadcvjetna



*Saxifraga rotundifolia*

Grossulariaceae \*K<sub>5</sub> C<sub>5</sub> A<sub>5</sub> G/(2)



Ribes alpinum- ribizla