

Lilianae

(monokotiledone)

Nekomelinide

Acorales

Alismatales

Petrosaviales

Dioscoreales

Pandanales

Liliales

Asparagales

Komelinide

Arecales

Poales

Commeliniales

Zingiberales

Nekomelinide

- Acorales (Acoraceae)
- Alismatales (Alismataceae, Butomaceae, Araceae, Hydrocharitaceae, Lemnaceae, Najadaceae, Posidoniaceae, Potamogetonaceae, Zosteraceae)
- Petrosaviales (Petrosaviaceae)
- Dioscoreales (Dioscoreaceae)
- Pandanales (Pandanaceae)
- Liliales (Asphodelaceae, Melanthiaceae, Colchicaceae, Liliaceae, Smilacaceae)
- Asparagales (Asparagaceae, Alliaceae, Amaryllidaceae, Iridaceae, Orchidaceae)

* P₃₊₃ A₃₊₃ G₍₃₎

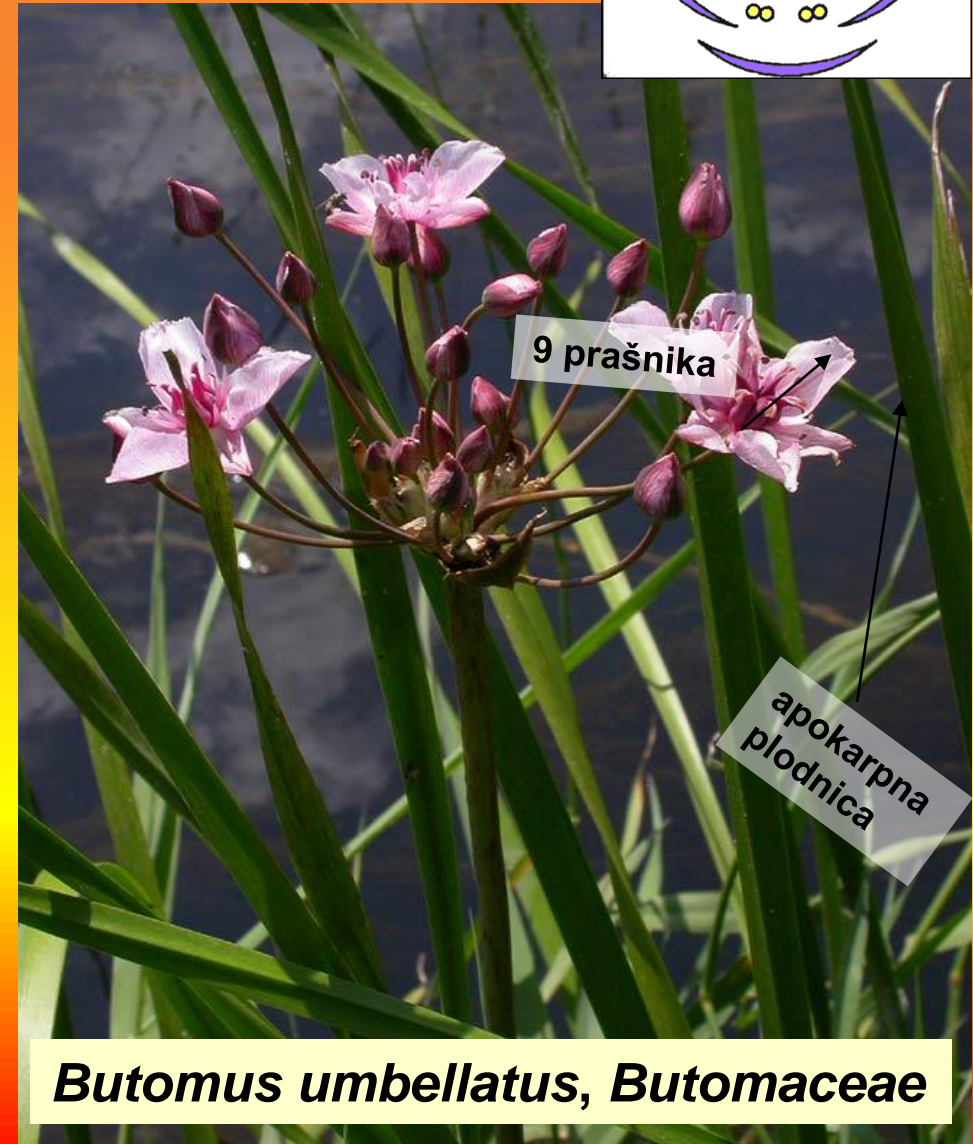
Acorales



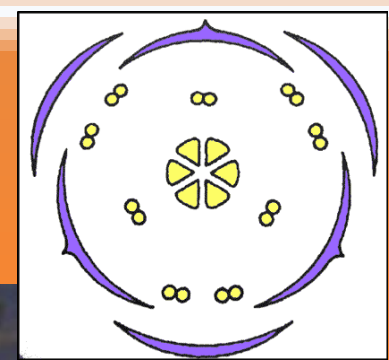
Acorus calamus, Acoraceae

* K₃ C₃ A₆₊₃ G₆₋₉

Alismatales



Butomus umbellatus, Butomaceae



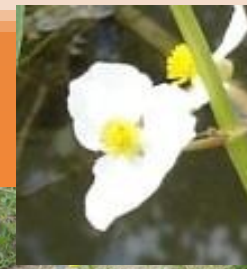
Alismatales

Alismataceae



* K3 C3 A3+3 G_ص

Alisma plantago-aquatica



*K3 C3 A_ص G^{3°+3°}
*K3 C3 A⁰ G_ص

Sagittaria sagittifolia

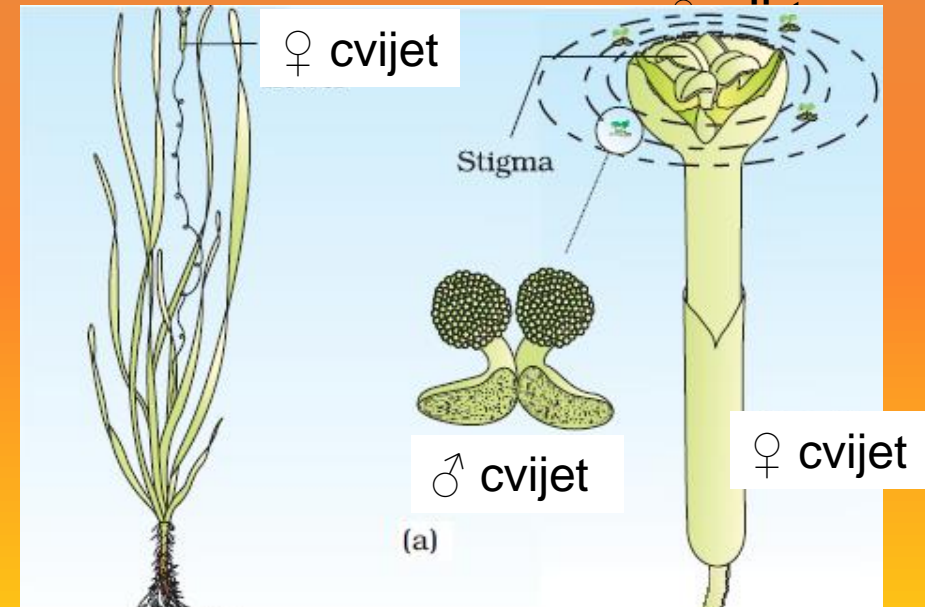
Hydrocharitaceae



Hydrocharis morsus-ranae

♂ *K3 C3 A3+3+3+3⁰(+3st +3st) G0

♀ *K3 C3 A3st G/3+3



Elodea canadensis

♂ *K3 C3 A3+3+3

♀ *K3 C3 G/(3)



Vallisneria spiralis

Najas marina, *Najadaceae*

♂ A1
♀ G1



Zostera marina,
Zosteraceae

♂ A1
♀ G1

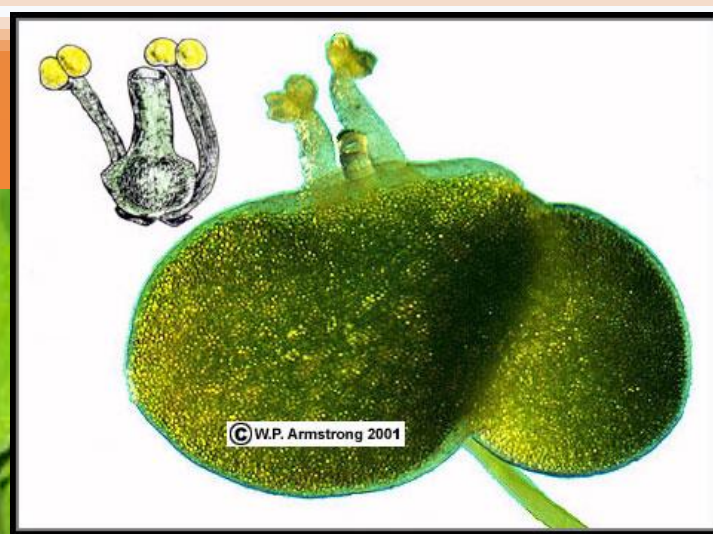


Posidonia oceanica,
Posidoniaceae

A3 G1

© Ramón Esteban (ISUB San José) para <http://marenostrum.org>

Lemnaceae



Lemna minor



Wolfia arrhiza

Potamogetonaceae

* (P₄ A₄) G₄



Potamogeton natans



Potamogeton perfoliatus

Dioscoreales, *Dioscoreaceae*

Dioscorea balcanica



* P₃₊₃ A₃₊₃ G₀
* P₃₊₃ A₀ G₍₃₎



Tamus comunis

* P₃₊₃ A₃₊₃ G₍₃₎

o. Pandanales
f. *Pandanaceae*



ص A P0
ص G P0

Pandanus gracilis

Liliales

Asphodelaceae (Asphodelus)

Colchicaceae (Colchicum)

Liliaceae (Lilium, Tulipa, Fritillaria)

Melanthiaceae (Veratrum, Paris)

Smilacaceae (Smilax)

Asphodelaceae, Asphodelus albus - čapljan



* P_{3+3} A_{3+3} $G_{(3)}$



Colchicaceae, Colchicum hungaricum, mrazovac

* [P(3+3) A3+3] G(3)



Liliaceae

P_{3+3} A_{3+3} $G_{(3)}$

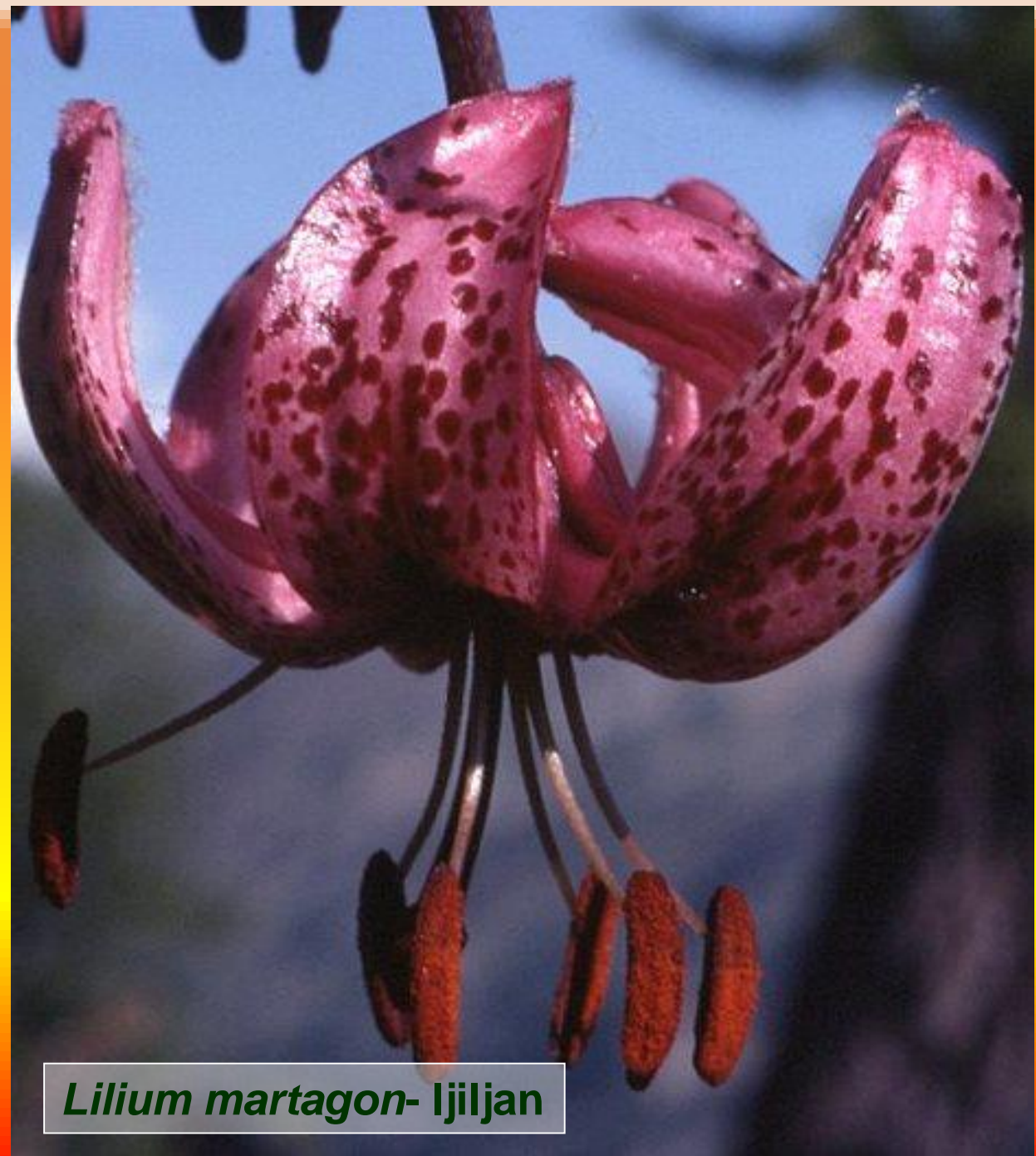
Tulipa sylvestris – lala, tulipan



Fritillaria gracilis-kockalica



Erythronium dens-canis- pasji zub

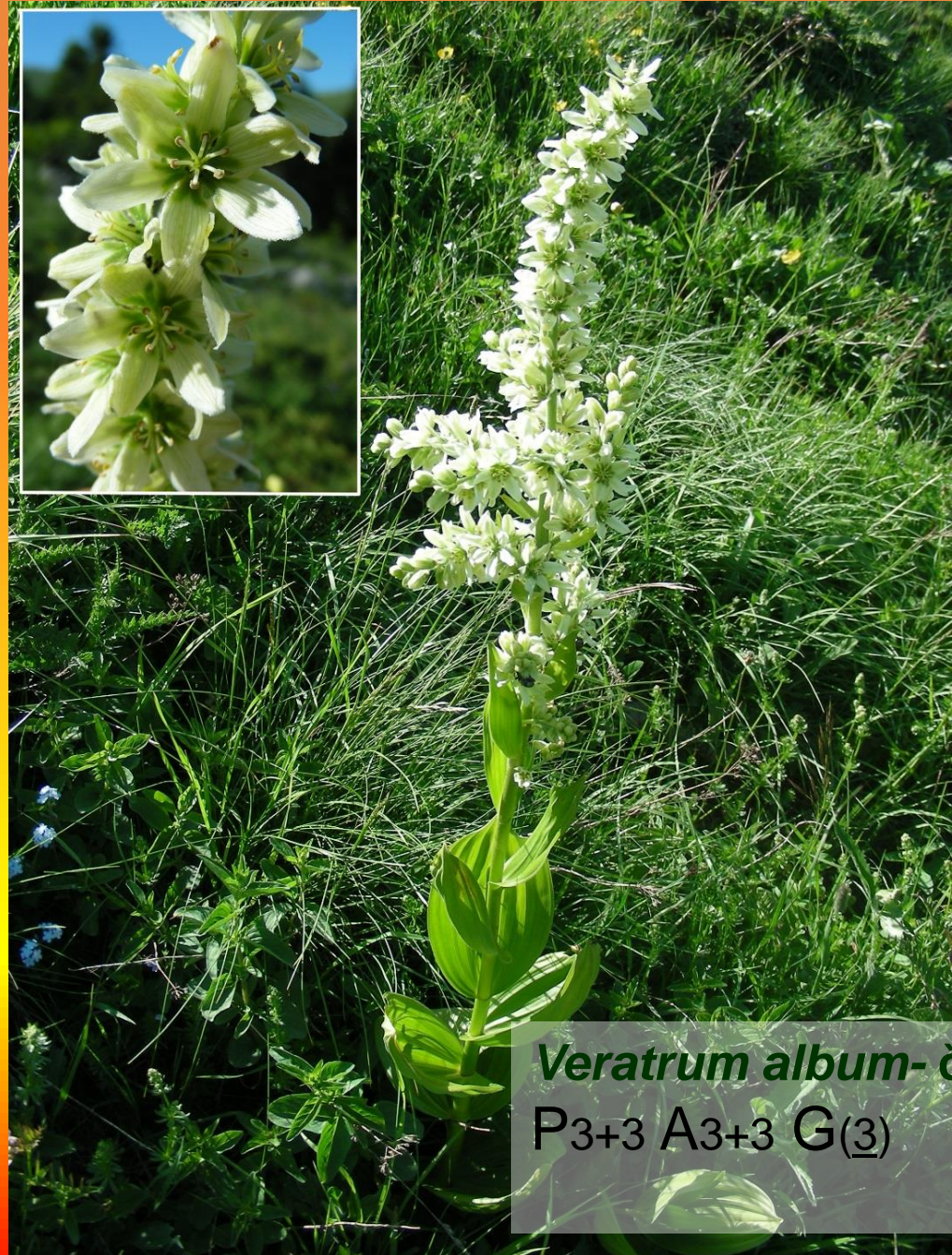


Lilium martagon- Ijiljan

Melanthiaceae



Paris quadrifolia- Petrov krst *K₄ C₄ A₄₊₄ G₍₄₎



Smilacaceae



Asparagales

Alliaceae (Allium)

Amaryllidaceae (Narcissus, Galanthus, Leucojum)

Asparagaceae (Convallaria, Polygonatum, Asparagus, Ruscus)

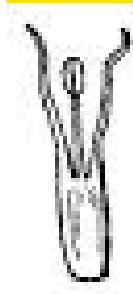
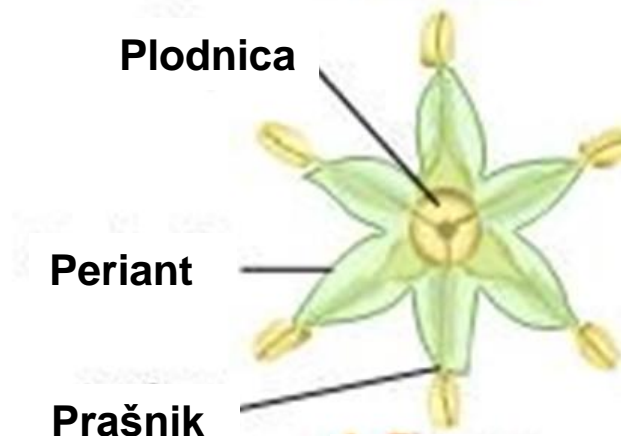
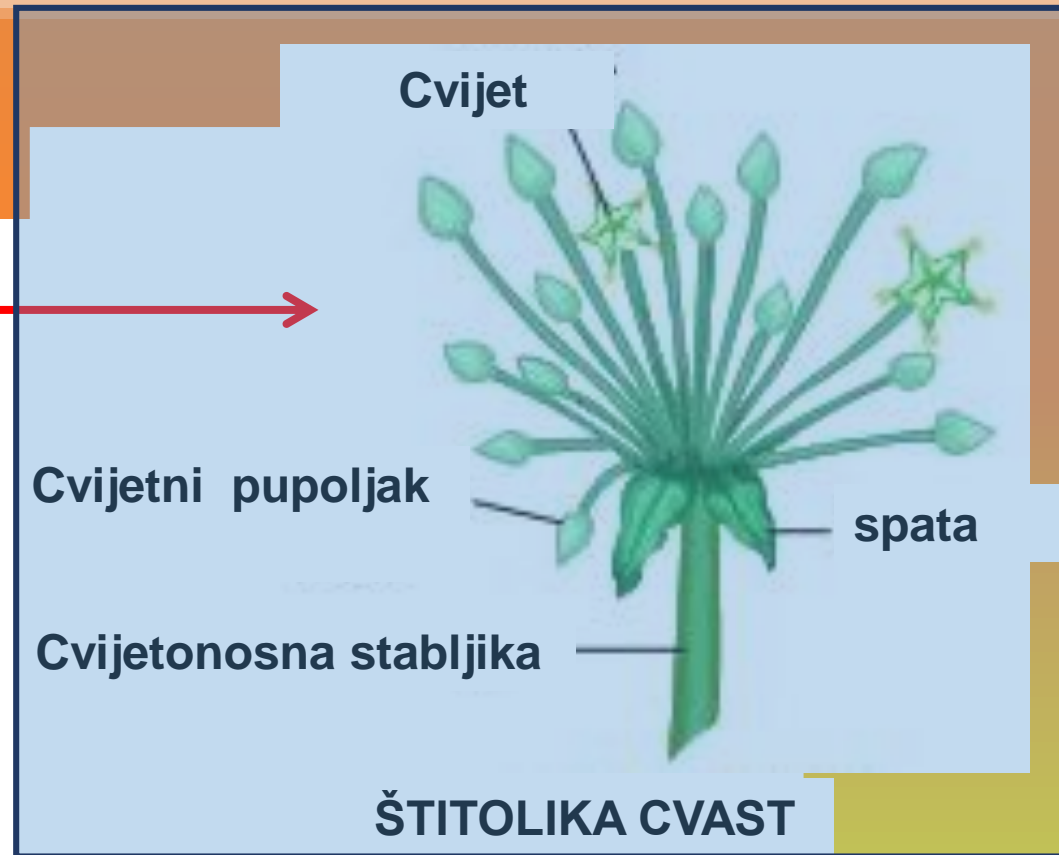
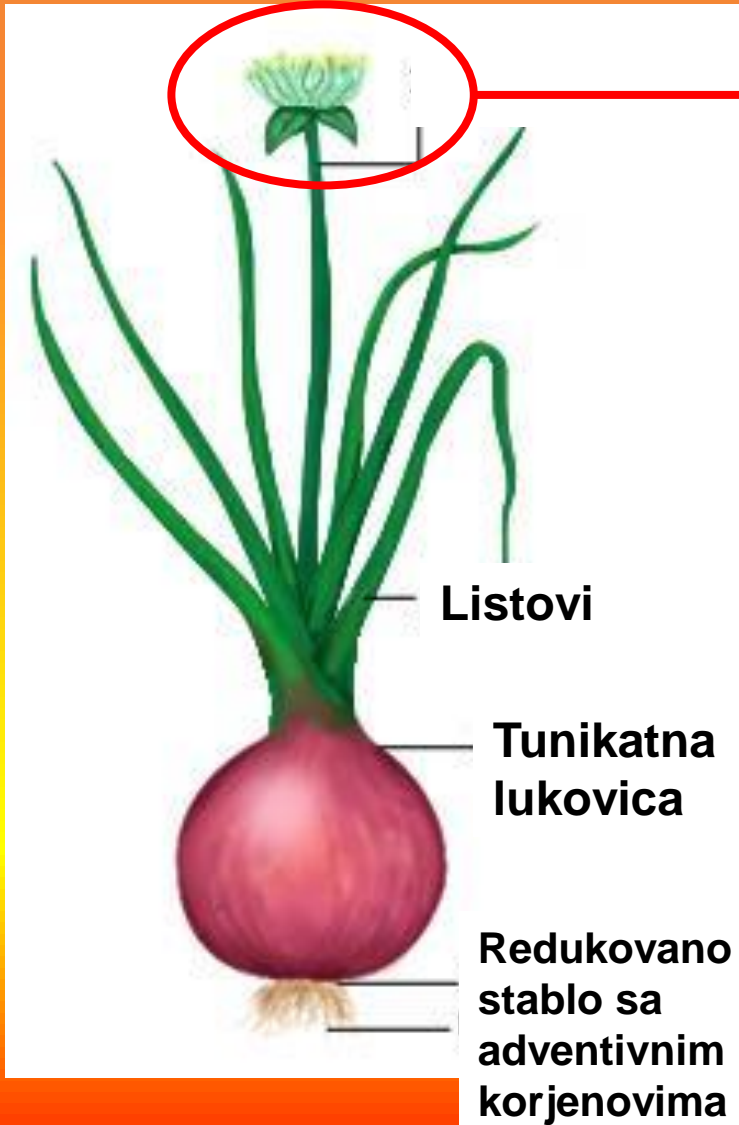
Araceae (Arum)

Iridaceae (Iris, Crocus, Gladiolus)

Orchidaceae (Ophrys, Orchis, Spiranthes, Gymnadenia...)

Alliaceae

* [P₃₊₃ A₃₊₃] G₍₃₎



Prašnik sa končastim privjescima

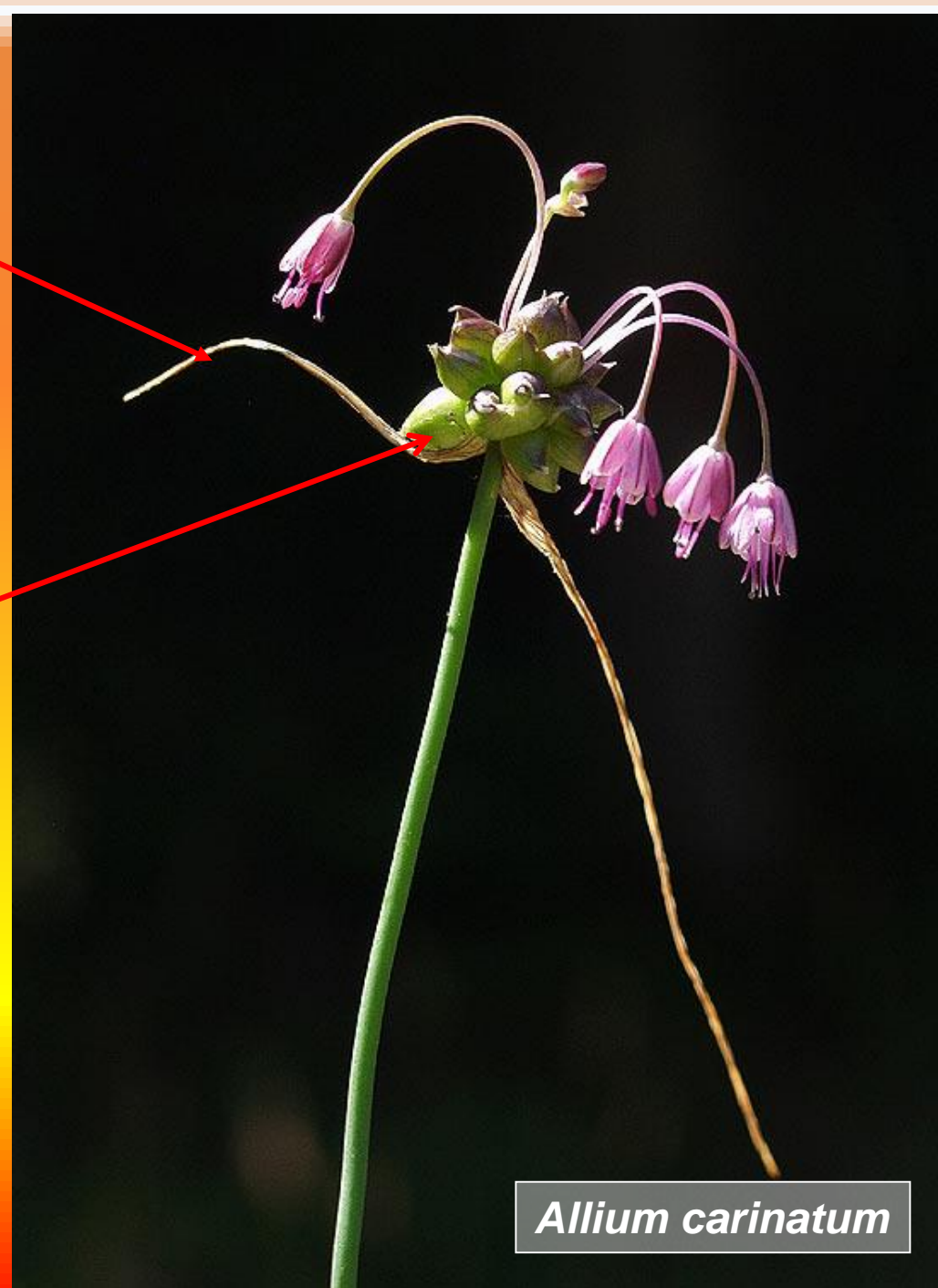


Allium cepa- crni luk

Allium ursinum- srijemuš

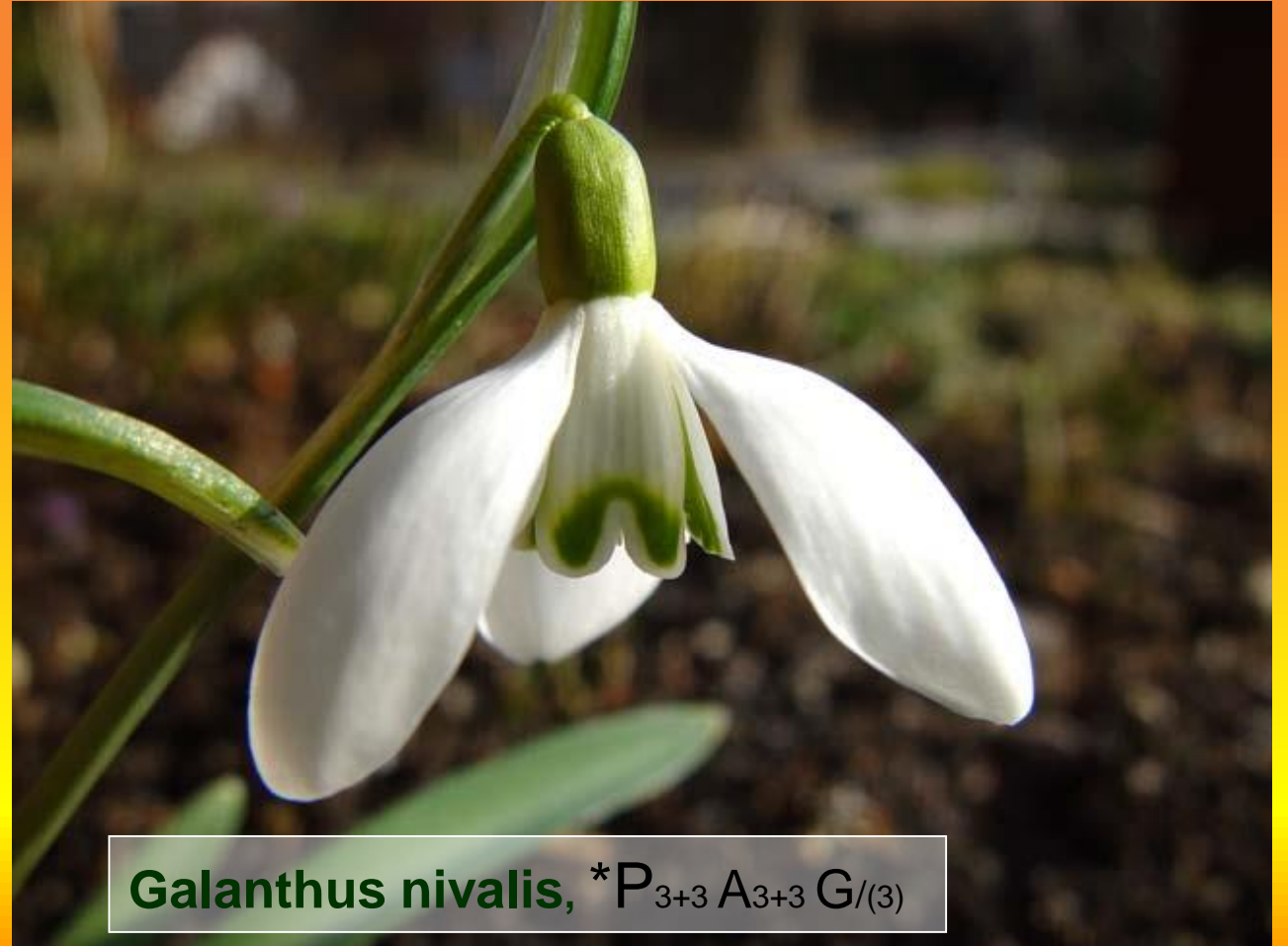
Ovojni list (spata)
nadvisuje cvast

Rasplodni bulbili u zoni cvasti



Allium carinatum

f. *Amaryllidaceae*



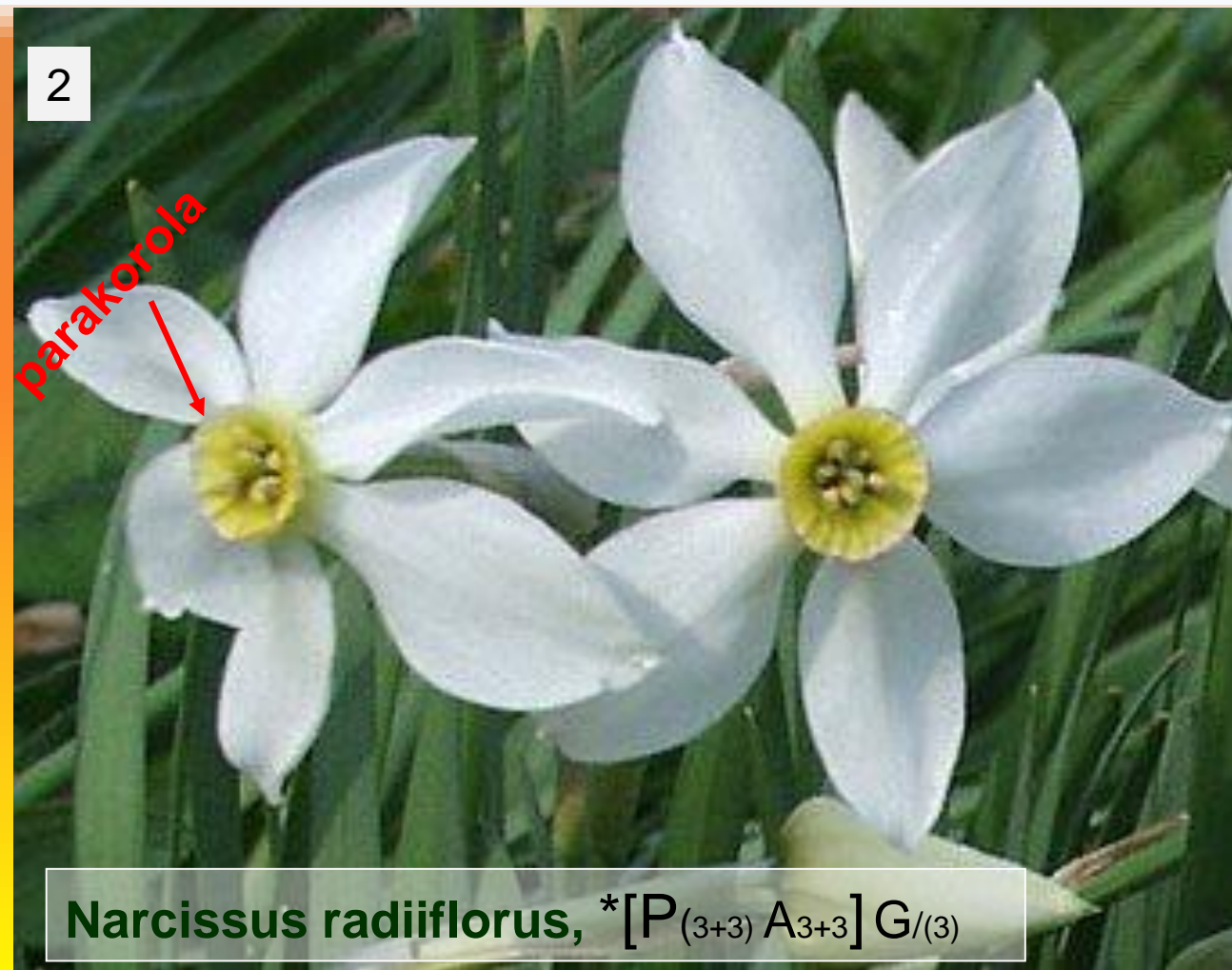
Galanthus nivalis, *P₃₊₃ A₃₊₃ G/(3)



Leucojum aestivum, *P₃₊₃ A₃₊₃ G/(3)



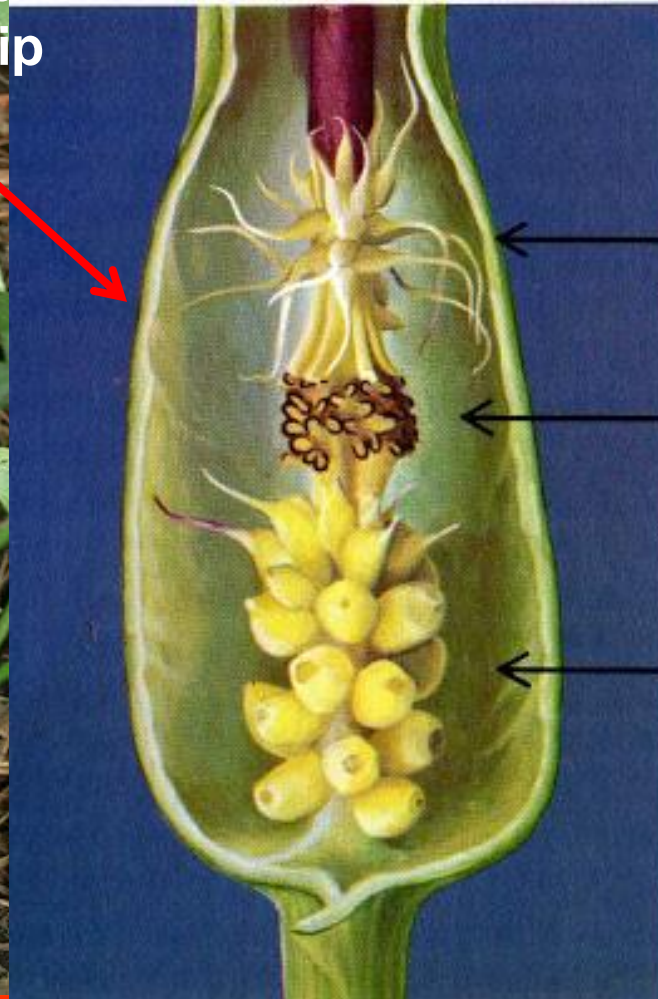
Pancratium maritimum



Narcissus radiiflorus, $*[P_{(3+3)} A_{3+3}] G_{/3}$

Parakorola izvodi porijeklo od prašničkih niti (1) ili cijevi vijenca (2)...

Araceae



Sterilni muški cvijet

Muški cvijet

♂ P₀ A(2-4)

Ženski cvijet

♀ P₀ G₁



Asparagaceae

Subfam. Asparagoideae



Asparagus acutifolius- šparoga, $*[P_{(3+3)} A_{3+3}] G_{(3)}$

Subfam. Nolinoideae



filokladija



Ruscus aculeatus- kostruika,

$*P_{(3+3)} A_{(3+3)} G_{(3)r}$

$*P_{(3+3)} (A_{3+3})_r G_{(3)}$

Subfam. Nolinoideae



Convallaria majalis- đurđevak



Polygonatum multiflorum

*[P₍₃₊₃₎ A₃₊₃] G₍₃₎

Subfam. Scilloideae





Scilla bifolia



Ornithogalum umbellatum – ptičje mlijeko

Agavaceae



Agave americana



Yucca sp.

Iridaceae

$[P_{3+3} A_3] G_{/(3)}$

Gladiolus palustris- gladiola



Zigomorfan cvijet



Iris pseudoacorus- iris

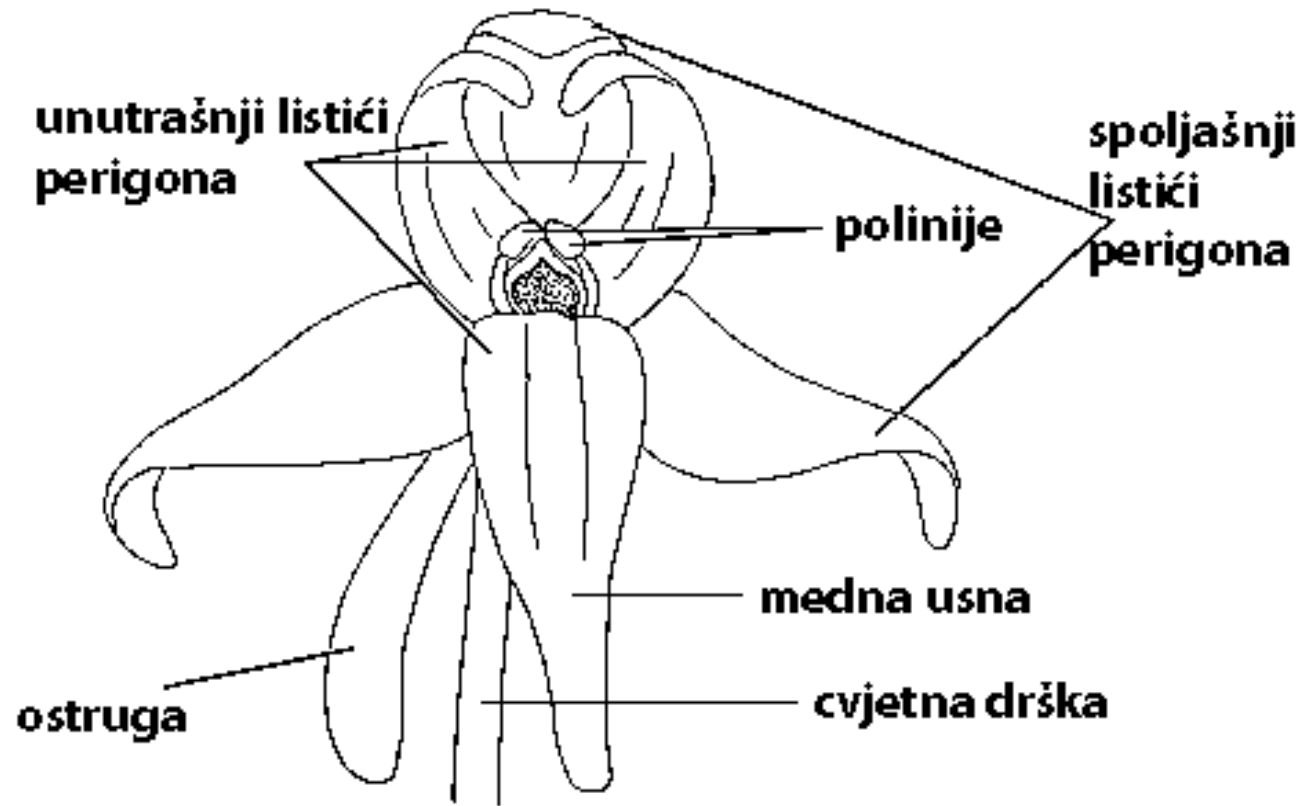
**3 spoljašnja lista perigona
prema nazad savijena**

Crocus dalmaticus- šafran



Romulea bulbocodium

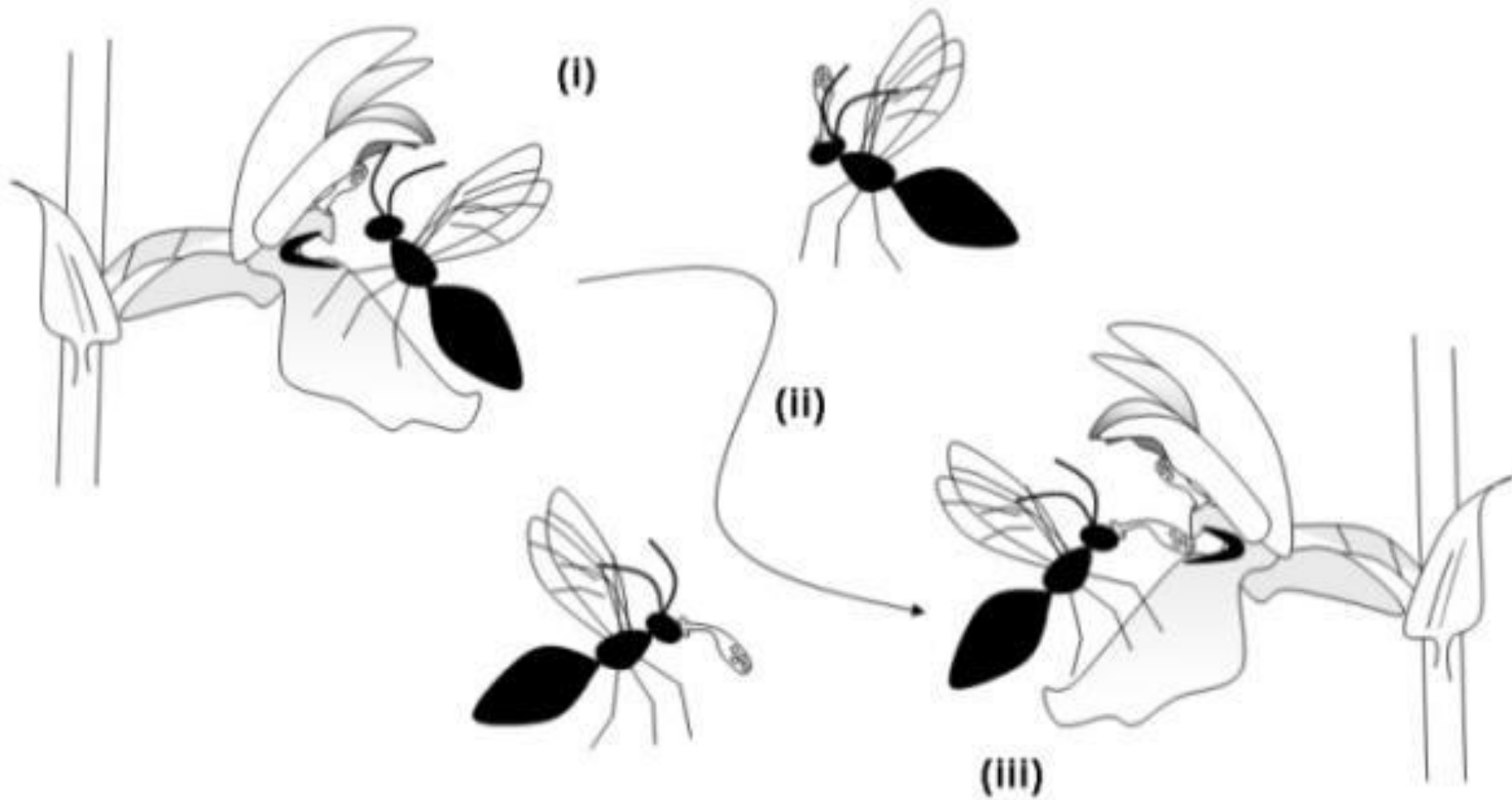
Orchidaceae



Subfam. Apostasioideae, $\uparrow/*P_{3+3} [A_{2-3} G_{/(3)}]$

Subfam. Cyripedioideae, $\uparrow P_{3+3} [A_{1^{st}+2} G_{/(3)}]$

Subfam. Orchideoideae, $\uparrow P_{3+3} [A_{1+2^{st}} G_{/(3)}]$



Mehanizam opašivanja



Himanthoglossum adriaticum

Medna usna sa
ostrugom!

Orchideoideae (Monoandre)

Anacamptis pyramidalis





Orchis papilionaceae



Orchis morio

Ophrys insectifera - pčelica

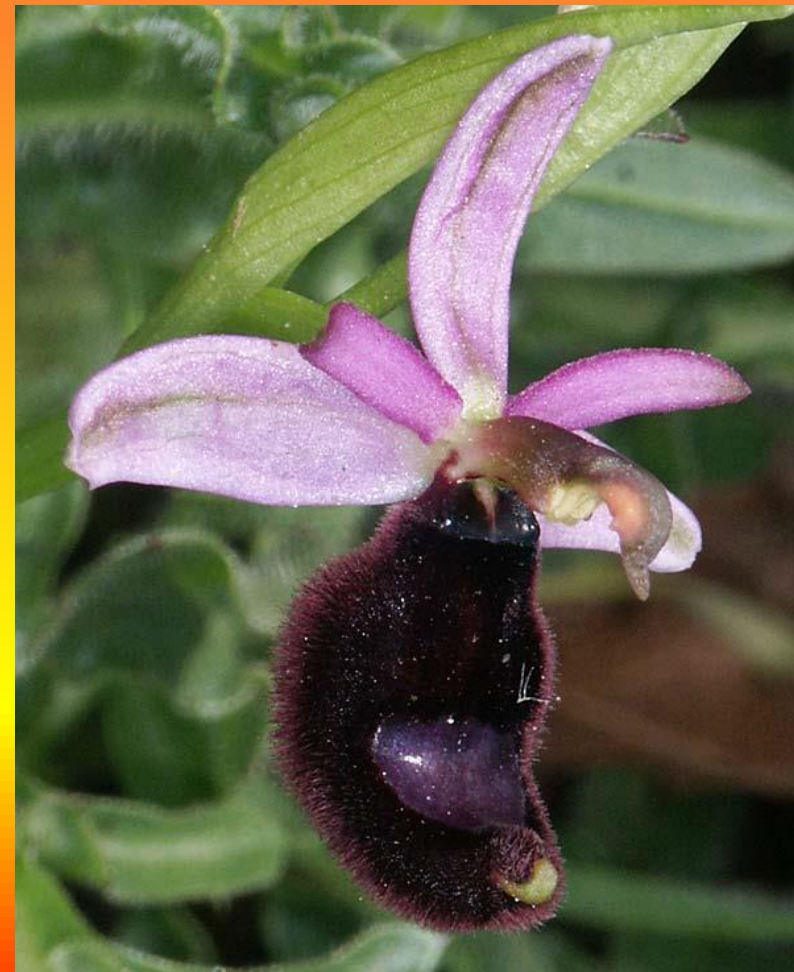


Medna usna
bez ostruge!

Ophrys cornuta - pčelica



Ophrys bertochonii - pčelica





***Neottia nidus-avis*- ptičje gnijezdo**



Spiranthes spiralis



Serapias sp.

Cypripedioideae
(Diandre)



Cypripedium calceolum