

Táptalaj kiegészítők levél-
anatómiai hatása *in vitro*
Eustoma grandiflorum
'Echo White' növényeken



Available in Plugs
& Seed unless
otherwise listed

Lisianthus

Cut Flower varieties 2010

www.highsun.com.au

Group 0-1 - Early-Mid Flowering

Bridal Gp 1 - Mid Flowering



The first colour in a specially selected range with a unique bud form for Lisianthus. The series will be especially useful for wedding arrangements and bouquets. The series is top flowering with buds of medium size. The upper stems are strong and resist floppiness. Group 1 timing so is suited to most times of the year. Bridal Yellow perfectly shaped buds show a hint of lime when tight. As the outer petals unfurl the buds take on the appearance of a rose.



3598 Yellow-Gp 1

Borialis Gp 0 - Early Flowering

Only available as Plugs

Formerly known as Aurora.
Extra early Doubles. Very early for Winter, early Spring production.
Flower shape, size and petal number is between that of Echo and Mariachi. An excellent choice for this group.



4751 Apricot-Gp 0



3334 Blue-Gp 0

Gem Gp 1 - Mid Flowering

Gem Series is of uniform flowering quality, exhibiting full doubleness on strong stems with medium to large heads. The open flowers are tidy and well presented towards the top of the stems. Height 90cm.



3595 Blue-Gp 1



1152 Blue Pic-Gp 1



4859 Green-Gp 1



4860 Misty Blue-Gp 1



4706 Pink-Gp 1



1995 White-Gp 1

Super Magic™ Gp 0-1 - Mid Flowering

Flower form and bud colour is what the market requires today, being pointed and showing colour on the outer furls of petals before opening. Super Magic is the sister line to Magic. Overall quality is superior to Magic due to taller stems and higher petal count. Well suited to late Spring Summer production.

3565 Mix - not shown



4002 Deep Blue-Gp 1



2082 Lavender-Gp 1



2081 Lav. Blue-Gp 1



3640 Peach-Gp 1



2083 Purple-Gp 1



2084 White-Gp 0 | of 4





MS (Murashige és Skoog, 1962) felszaporítás
agar: 11 g/l
szacharóz: 20 g/l

Tenyésztés fizikai körülményei

- fényszoba
- Erlenmeyer-lombikok (3 rétegű fólia - gázcsere)
- 16 órás megvilágítás ($40 \mu\text{mol m}^{-2} \text{s}^{-1}$)
- 20-25 °C

táptalaj jele	BA (mg/l)	BAR (mg/l)	KIN (mg/l)	M-TOP (mg/l)	IVS (mg/l)	Titavit (mg/l)
A0	-	-	-	-	-	-
A3	0,75	-	-	-	0,05	-
R3	-	0,75	-	-	0,05	-
AK2	-	-	0,75	-	0,05	-
AT2	-	-	-	0,75	0,05	-
T1	-	-	-	-	0,05	0,5
T4	-	-	-	-	0,05	10
T31	-	-	-	-	0,25	5
T32	-	-	-	-	0,5	5
T33	-	-	-	-	1	5



Mintaelőkészítés

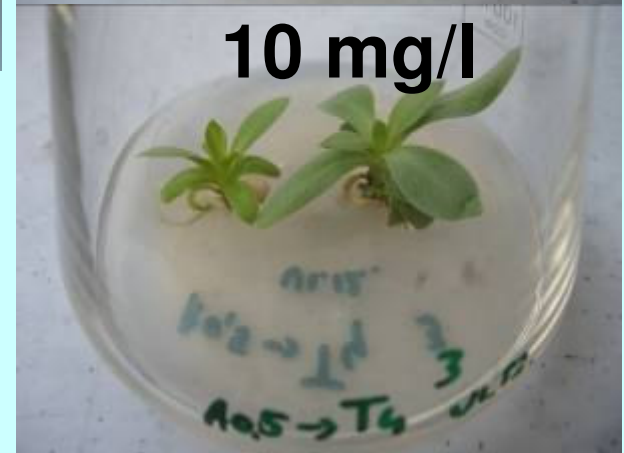
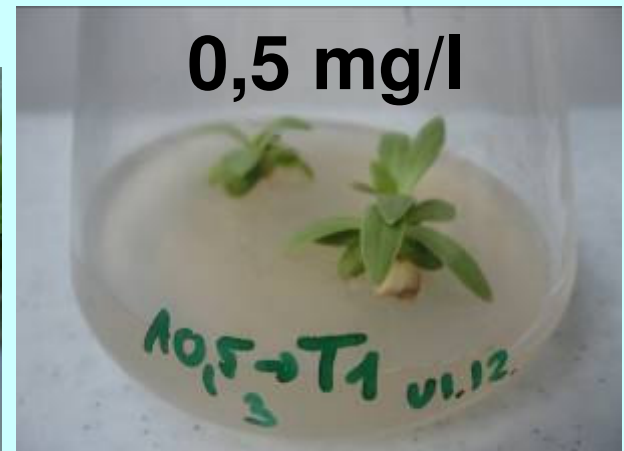
- 1.) Minta tisztítása és feldarabolása (fénym.: max 4 mm, elektronm.: max 2 mm)
- 2.) Fixálás: előfixálás 5% glutáraldehid oldatban (2 óra), mosás foszfát pufferrel 3 x (0,07 M, pH 7,2-7,4), utófixálás 1 % osmiumtetroxid oldatban (1,5 óra), mosás foszfát pufferrel 3 x
- 3.) Víztelenítés acetonsorozattal: 30% 15 perc, 50% 15 perc, 70% 1 éjszakán át, 90% 15 perc, 96% 2 x 15 perc, 100% 3 x 15 perc
- 4.) A minta átítatása a beágyazó anyaggal (műgyantával): fokozatosan, rázógéppel – 1/1 aceton/agar elegyben 2 óráig, 1/2 aceton/agar elegyben 1 éjszakán át, majd a tiszta műgyantában 2 x 2 órán át hagyjuk, majd rázógépbe tesszük a jobb átítatás végett
- 5.) Beágyazás: a mintát tiszta műgyantával együtt zselatinkapszulába, az irányított mintát szilikonformába tesszük
- 6.) Polimerizálás: 24 órára termosztátba helyezzük (60 °C)
- 7.) Faragás: a felesleges műgyantát eltávolítjuk REICHERT TM60 faragógéppel

Fénymikroszkóp

- 8.) fél vékony (300-500 nm) metszetek készítése (REICHERT 0mU2 ultramikrotómmal)
- 9.) Metszetfestés: toluidinkékkel (10-20 másodperc)
- 10.) vizsgálat (**LEITZ LABORLUX S**)

Elektronmikroszkóp

- 8.) ultra vékony (20-50 nm) metszetek készítése (REICHERT 0mU2 ultramikrotómmal)
- 9.) Metszetfestés, kontrasztosítás - uralilacetát oldattal (10 perc), Reynolds-féle ólomcitrát oldattal (4 perc)
- 10.) vizsgálat (**TESLA BS 500**)



0,75 mg/l

*Eustoma
grandiflorum*
'Echo White'
(A0)

fonák

szín

250x

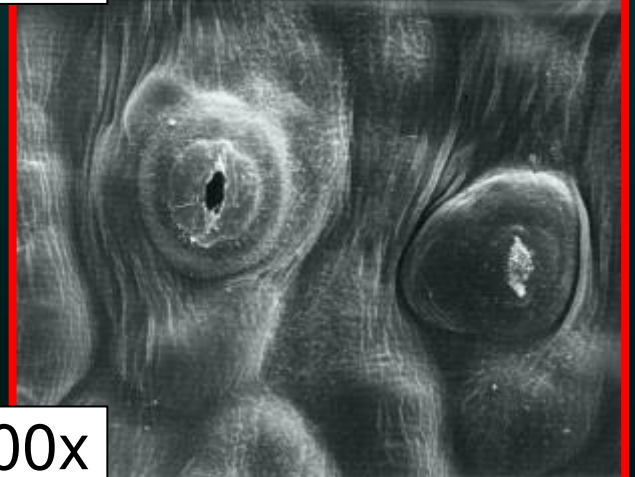
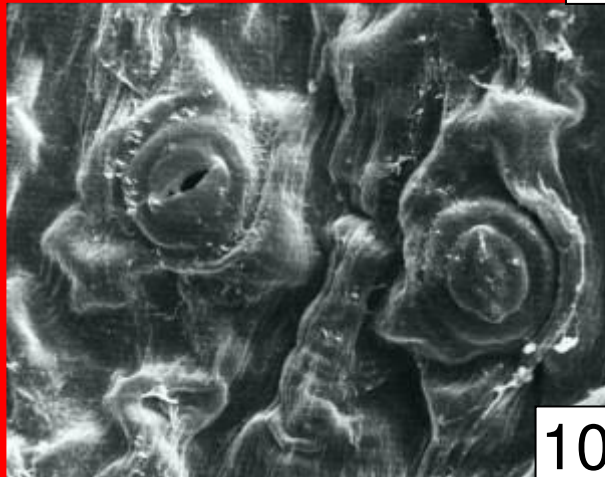
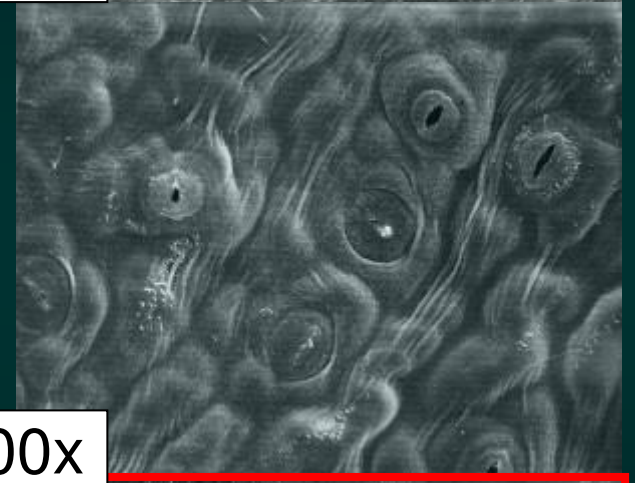
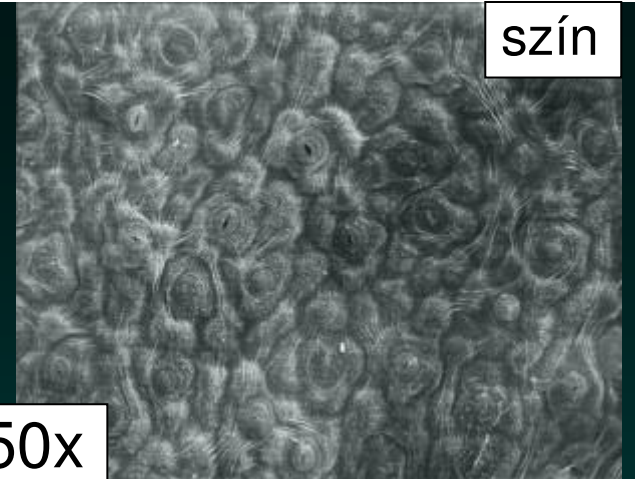
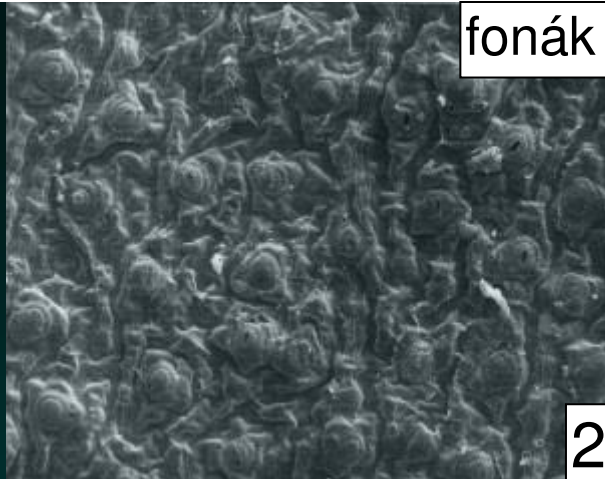
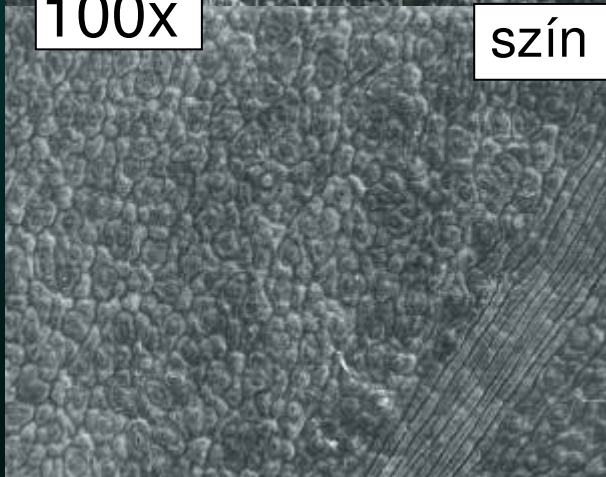
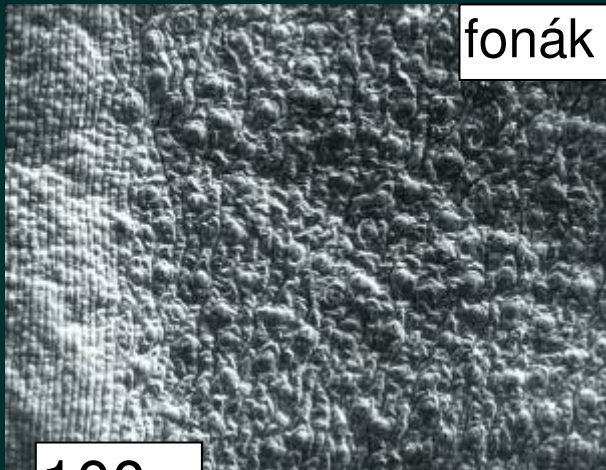
fonák

500x

100x

szín

1000x

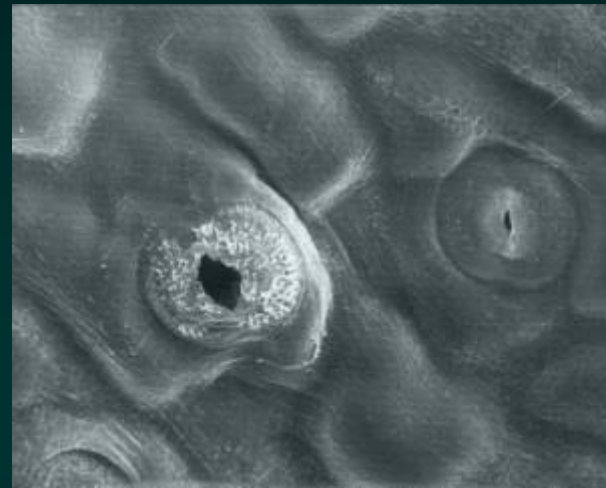
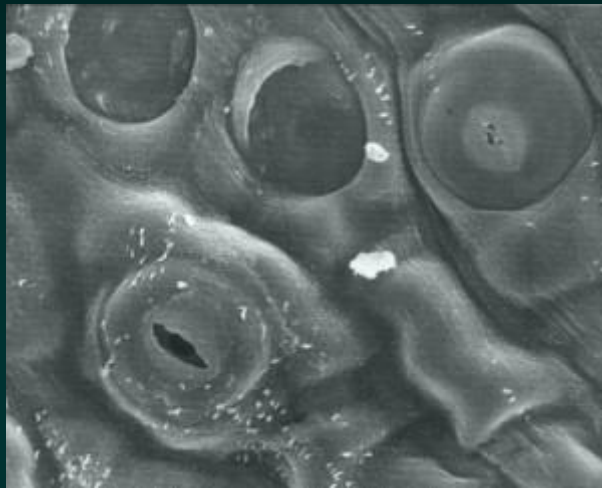
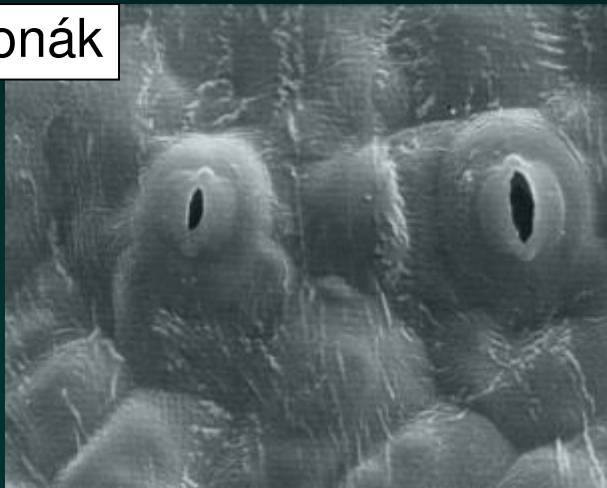


BA

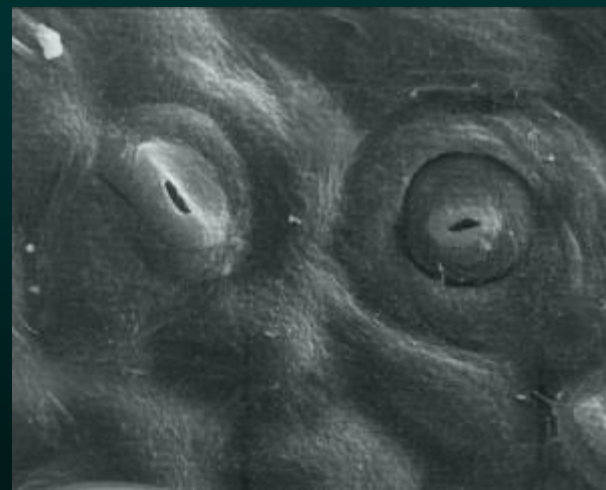
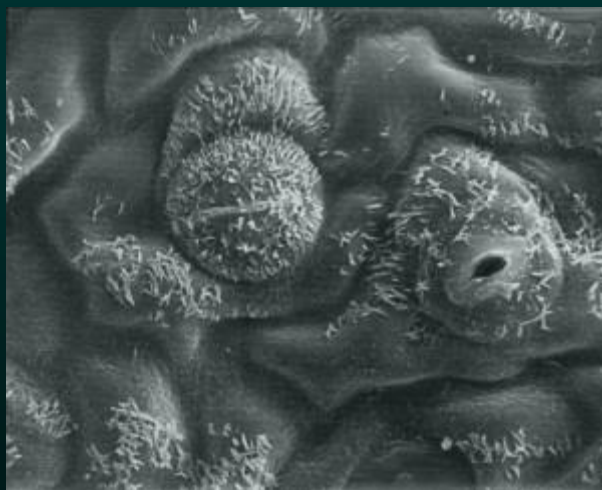
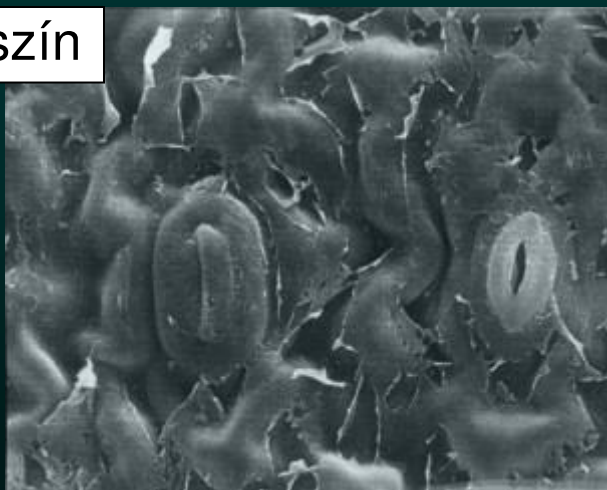
BAR

KIN

fonák



szín



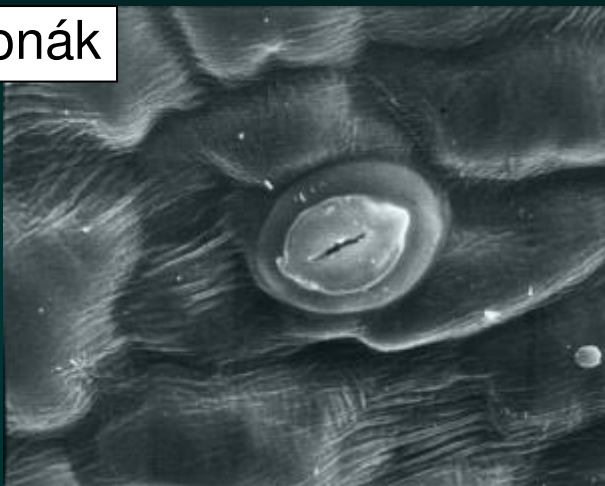
M-TOP

Titavit

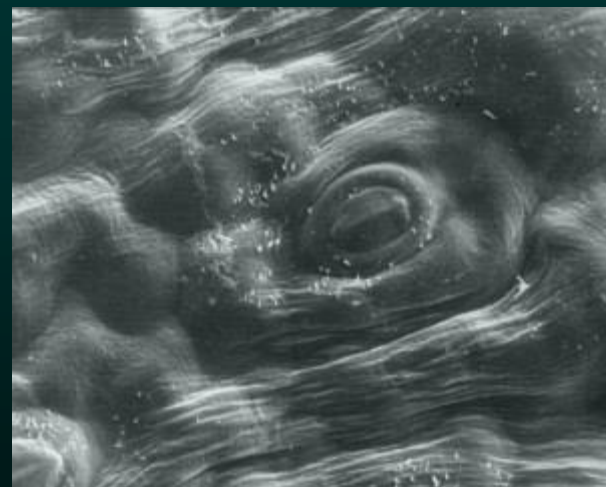
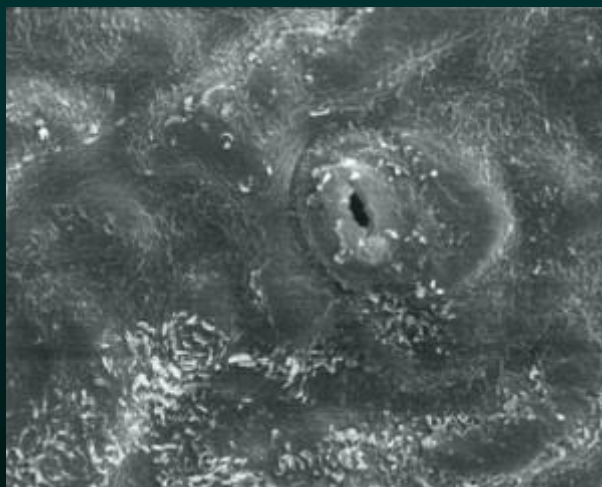
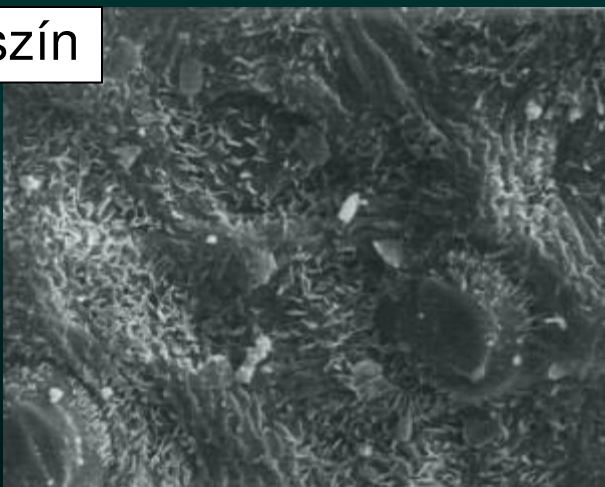
0,5 mg/l

10 mg/l

fonák



szín



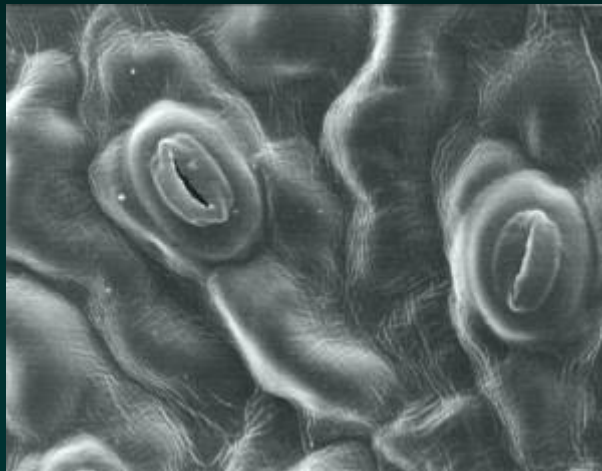
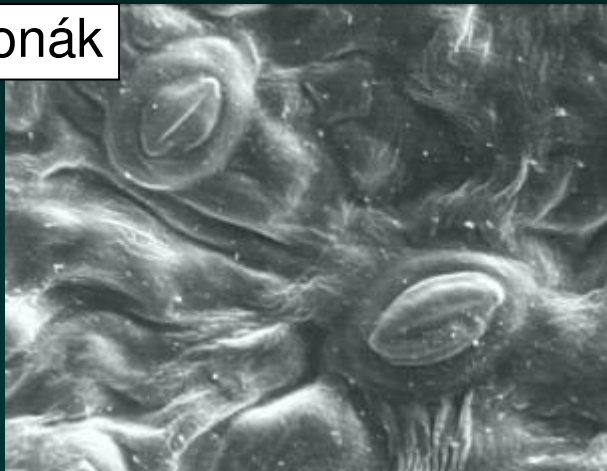
Titavit (5 mg/l)

+ IVS 0,25 mg/l

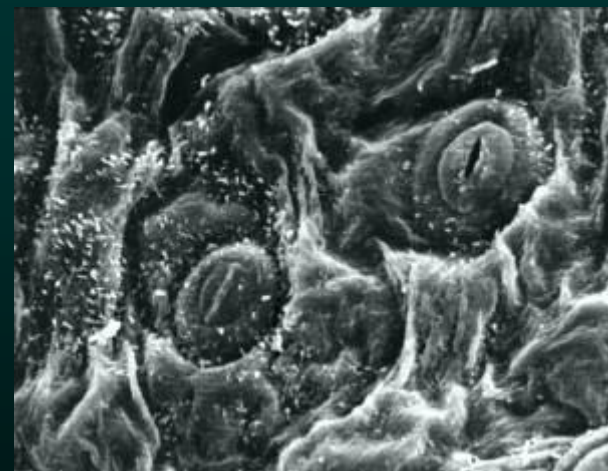
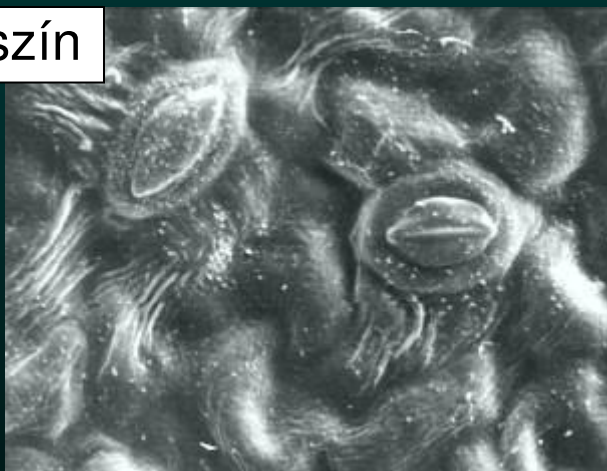
0,5 mg/l

1,0 mg/l

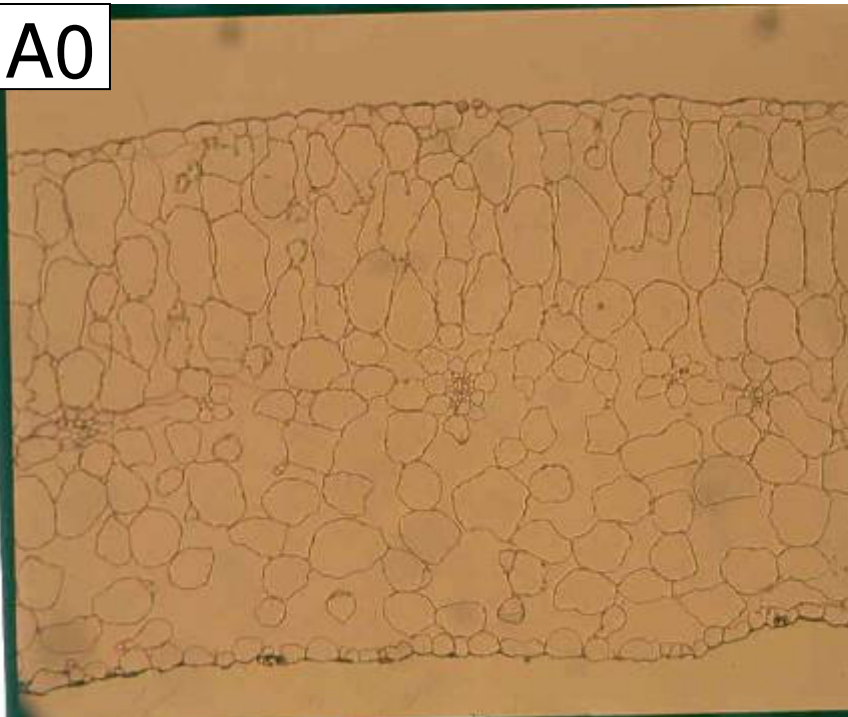
fonák



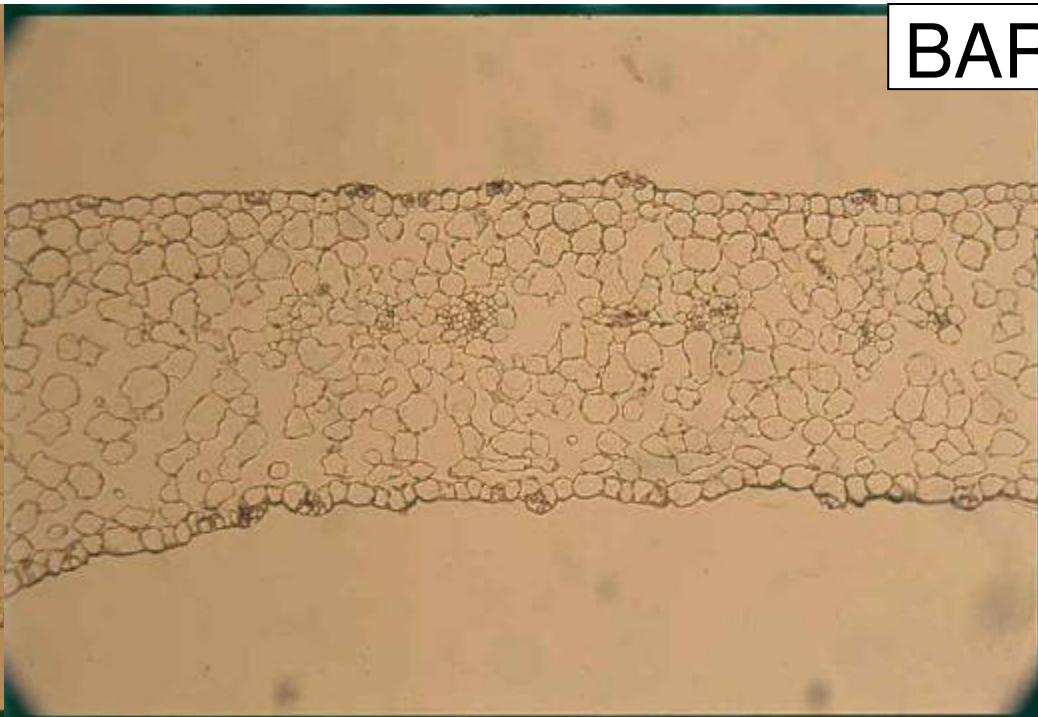
szín



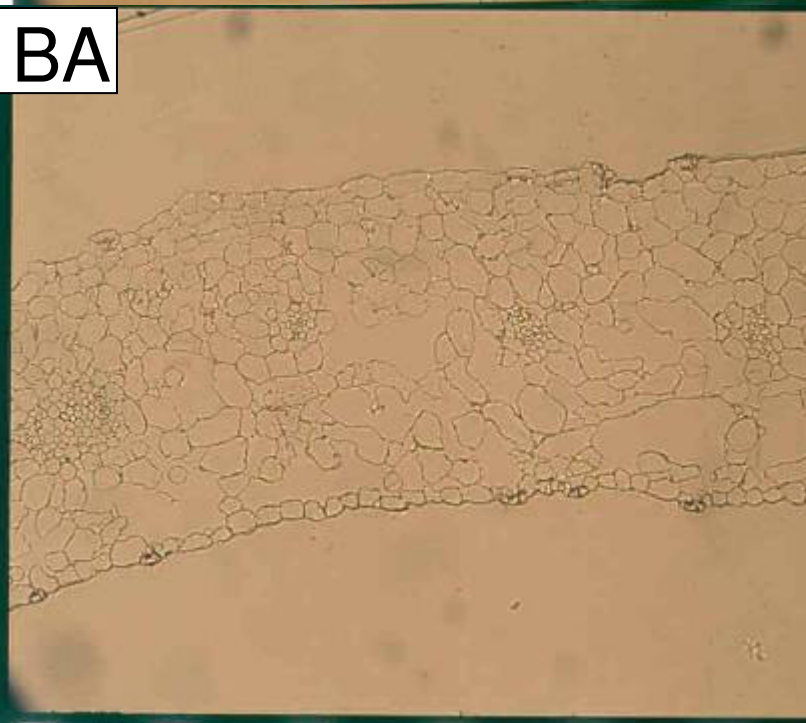
A0



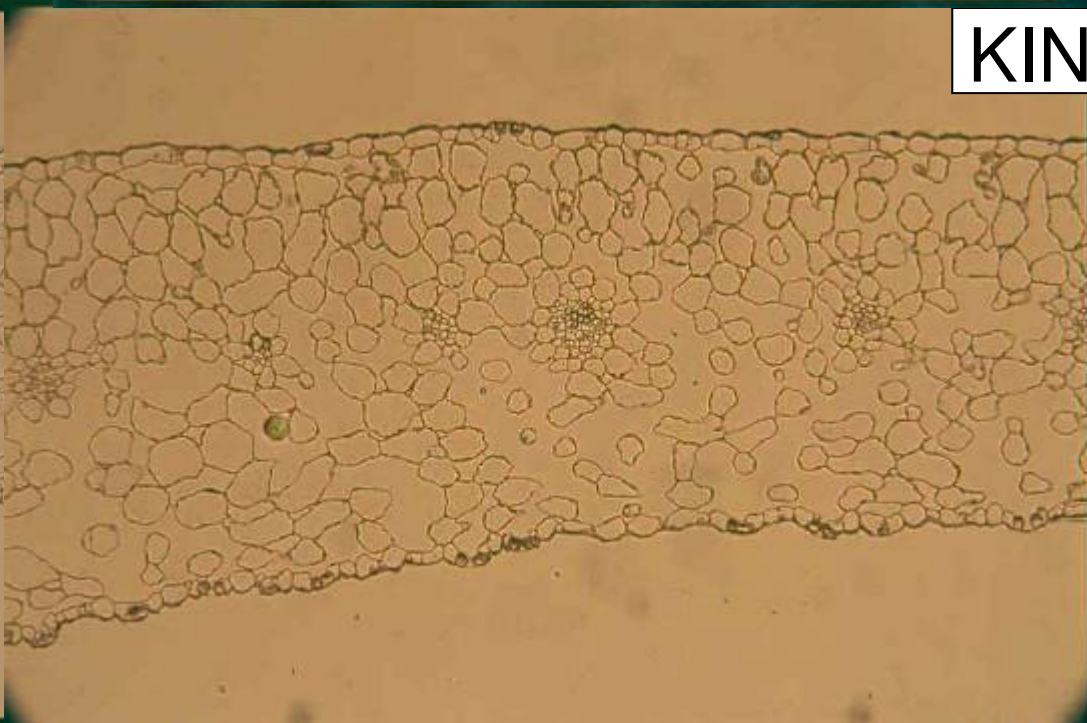
BAR



BA



KIN



**Köszönöm a
figyelmet!**

