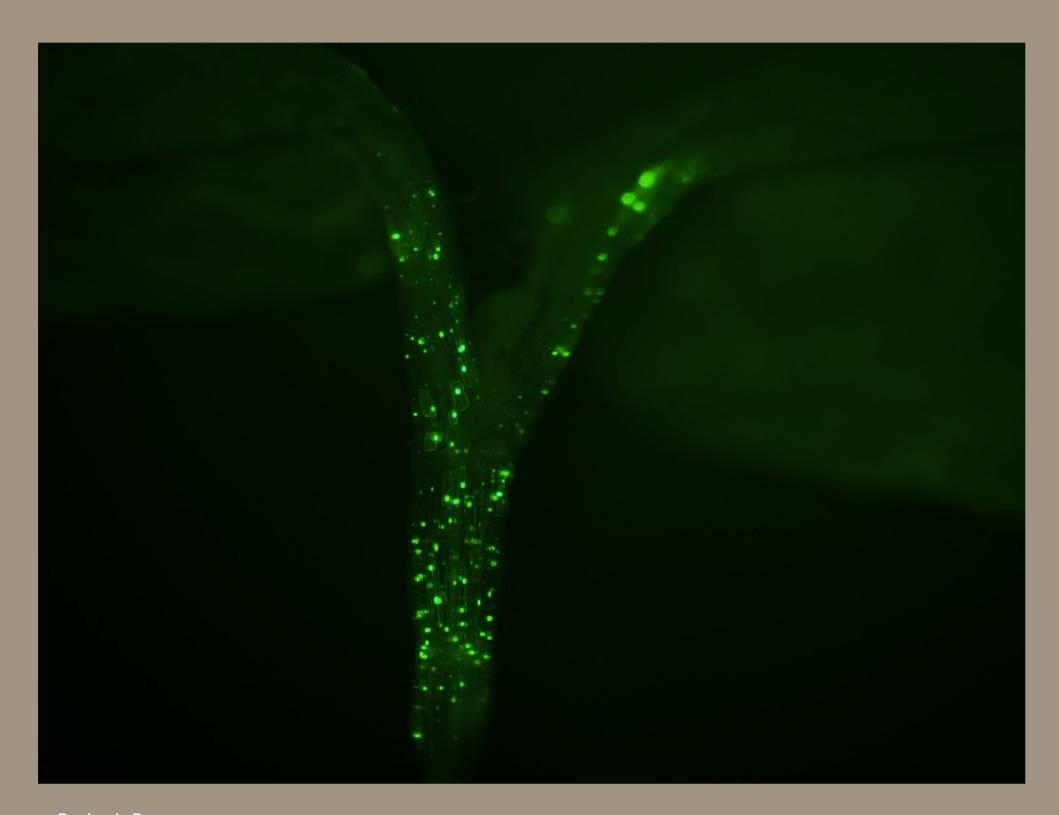
IGCAST SCIENTIFIC IMAGES COMPETITION







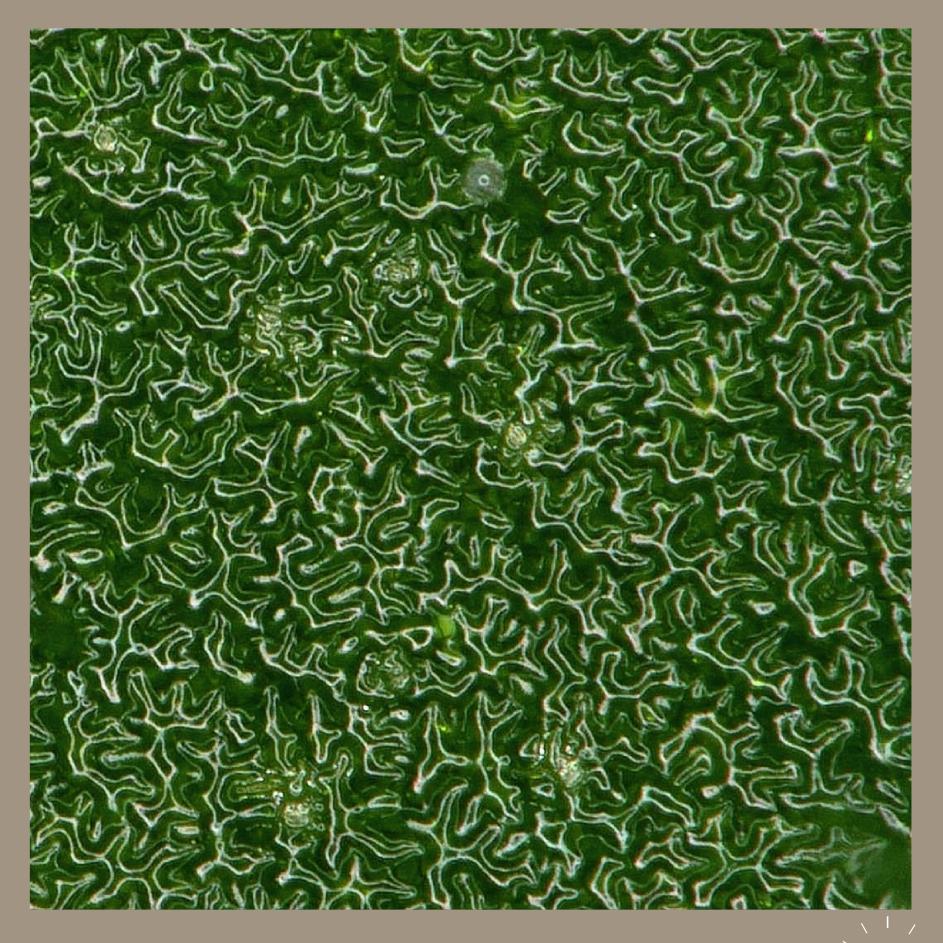


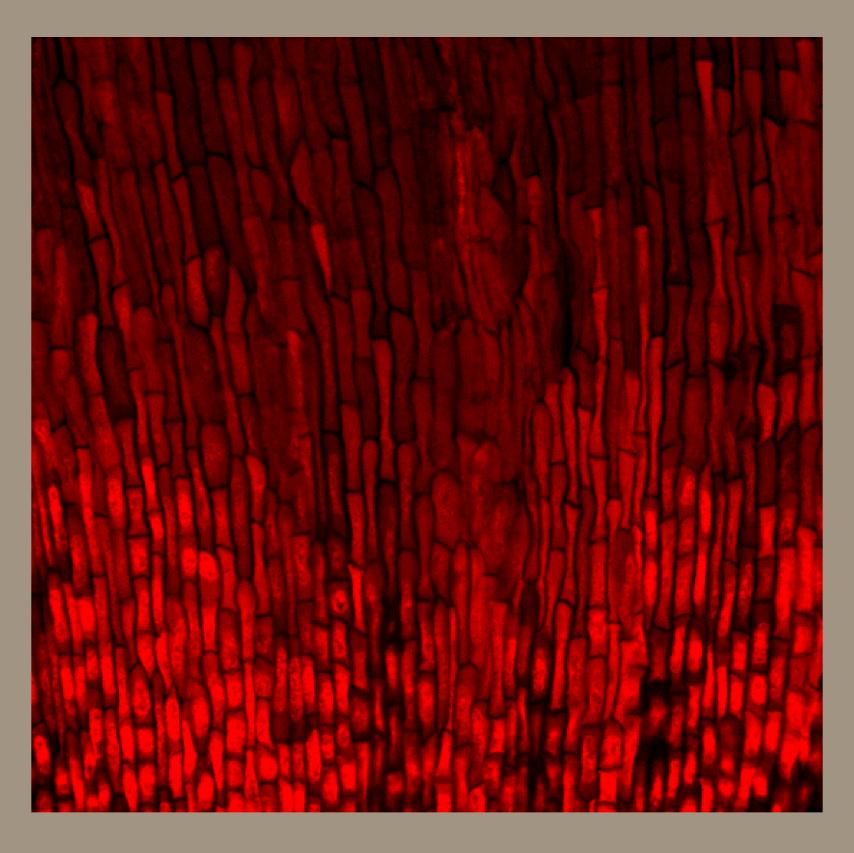


I am Groot

N. benthamiana hypocotyl under a fluorescent filter expressing a nuclear-localized mEGFP. The seedling was vacuum infiltrated with A. tumefaciens carrying a vector with the transgene.







Carlos Barragan Rosillo Cell wall Sorghum root cells.



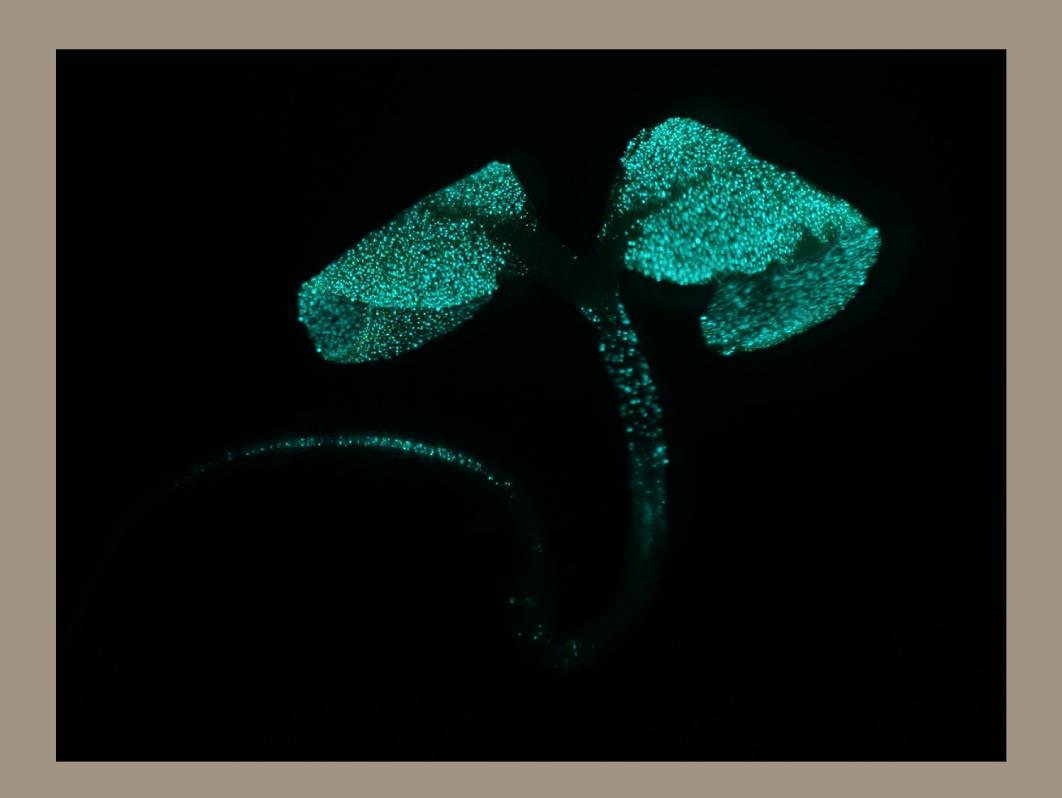


Adil Khan

Overview of the time series sorghum seed. The photographs show the changes in maize embryo, endosperm, and whole seed during development.



Arjun Ojha
Shoot at site. A rare view of three genotypes in one plant Tissue-culture-free genetic transformation and gene-editing in tobacco.



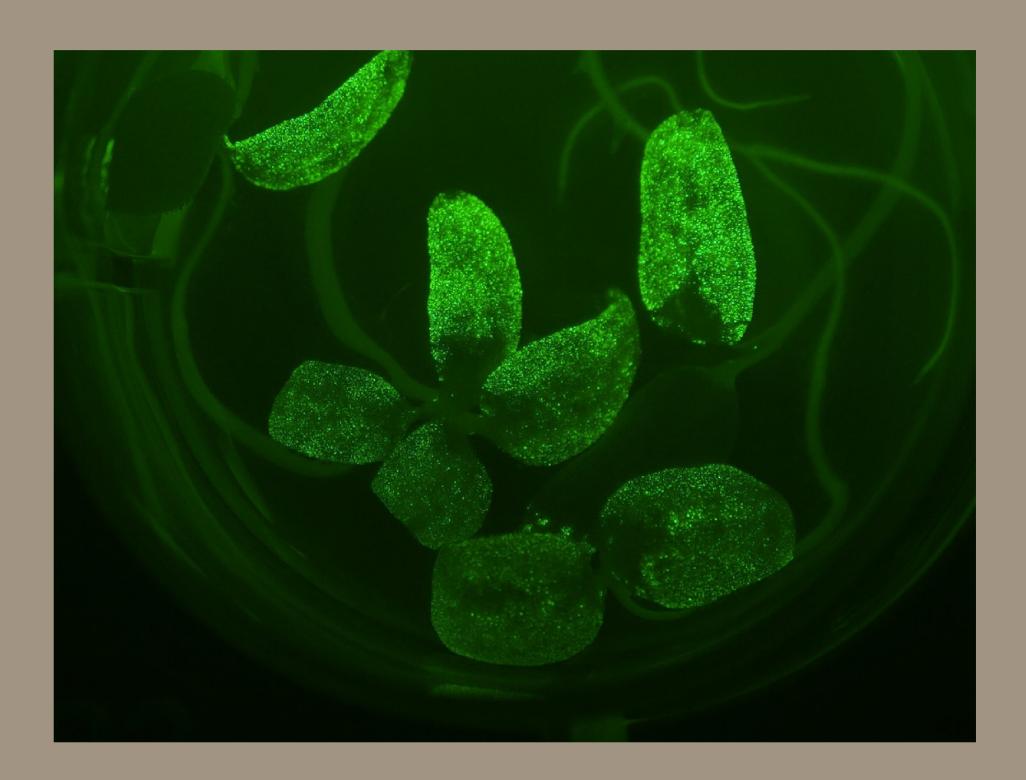
Beauty under the blue

N. benthamiana seedling under a fluorescent filter expressing a nuclear-localized mEGFP. The seedling was vacuum infiltrated with A. tumefaciens carrying a vector with the transgene.



Fluorescent dance

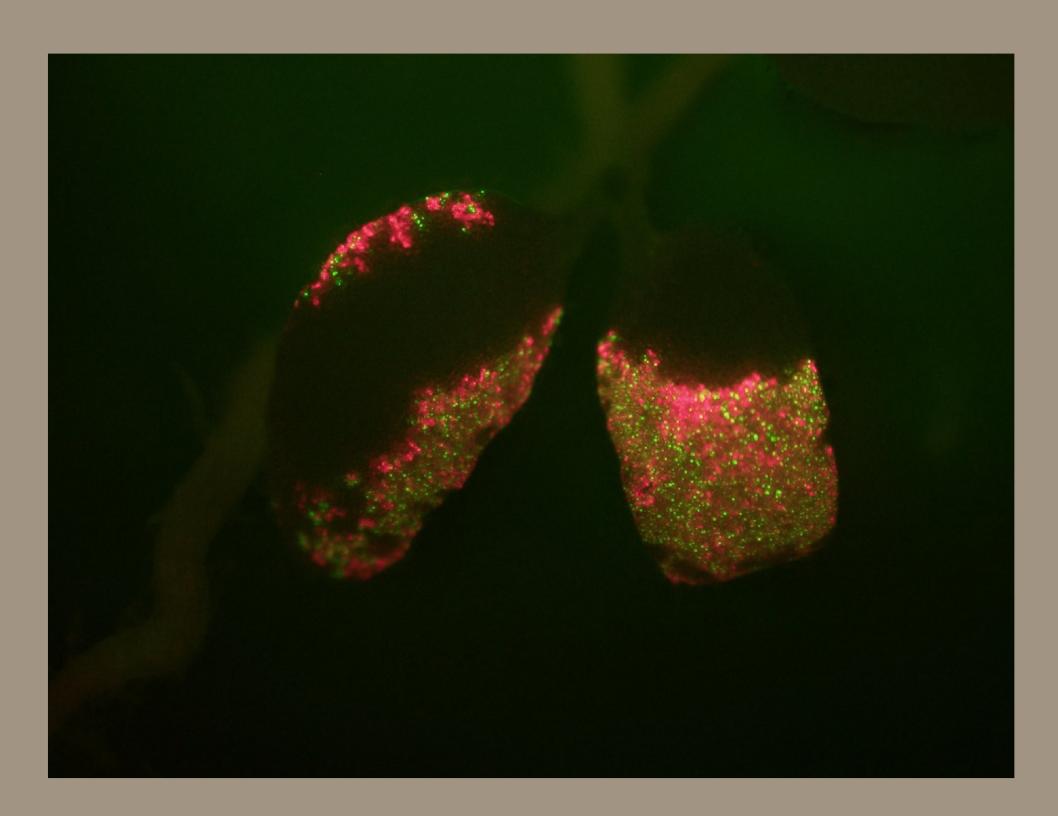
A pool of N. benthamiana seedlings under a fluorescent filter expressing a nuclear-localized mEGFP. The seedlings were vacuum infiltrated with A. tumefaciens carrying a vector with the transgene.



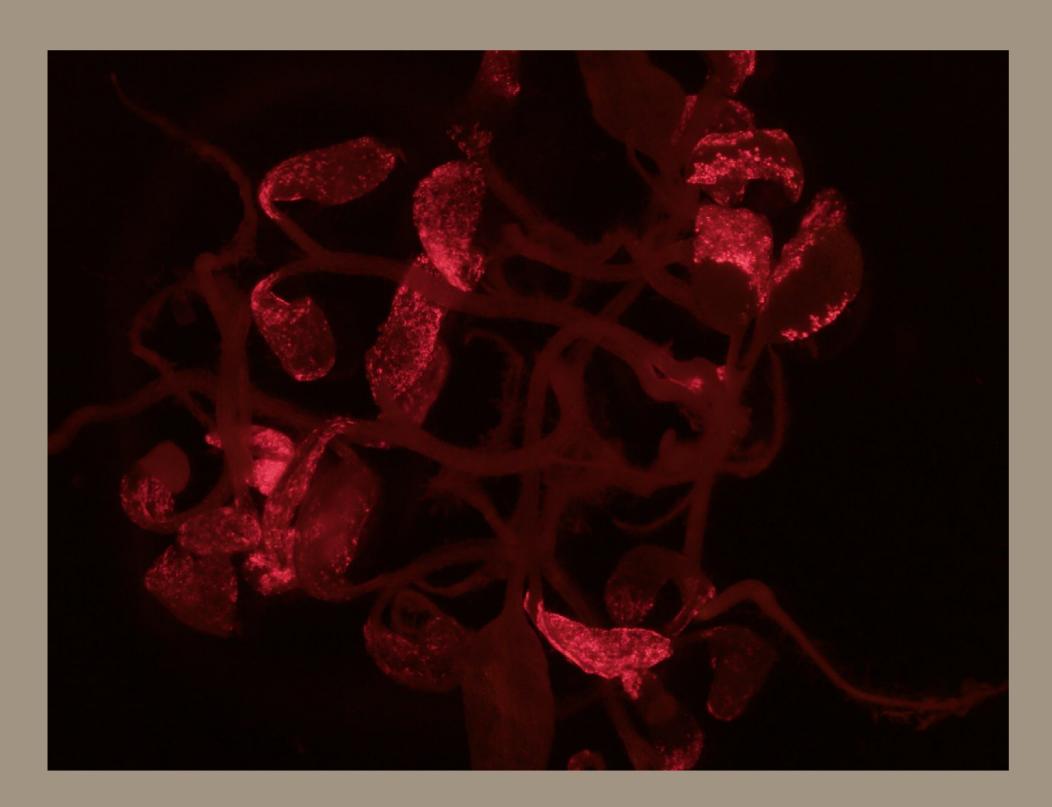
Benjamin Perez Saint Patrick's Day N. benthamiana seedling under a fluorescent filter expressing a nuclear-localized mEGFP. The seedlings were vacuum infiltrated with A. tumefaciens carrying a vector with the transgene.



Benjamin Perez Stay shiny A pool of one-week-old N. benthamiana seedlings observed under the microspore.

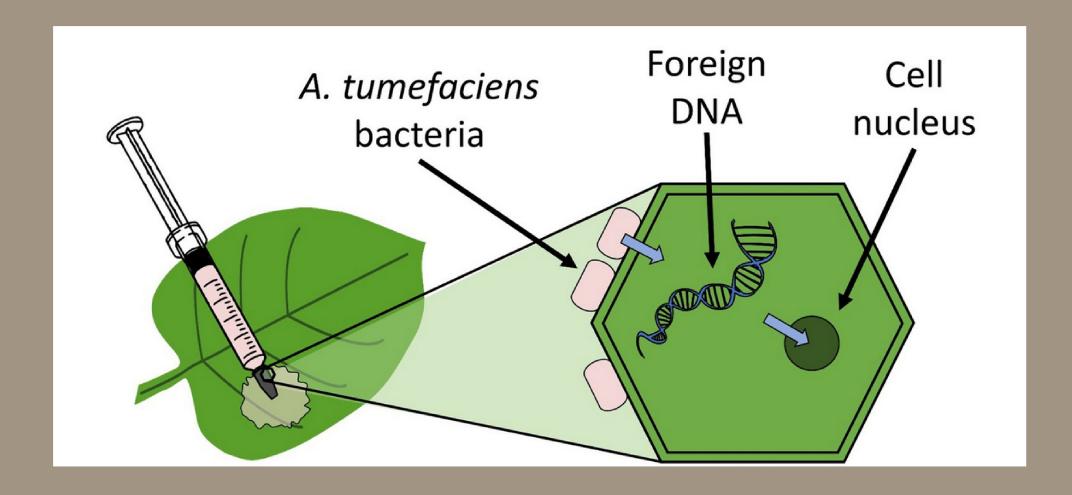


Benjamin Perez
Christmas in the lab
N. benthamiana cotyledons under two different
fluorescent filters expressing mEGFP and mCherry
transgenes.

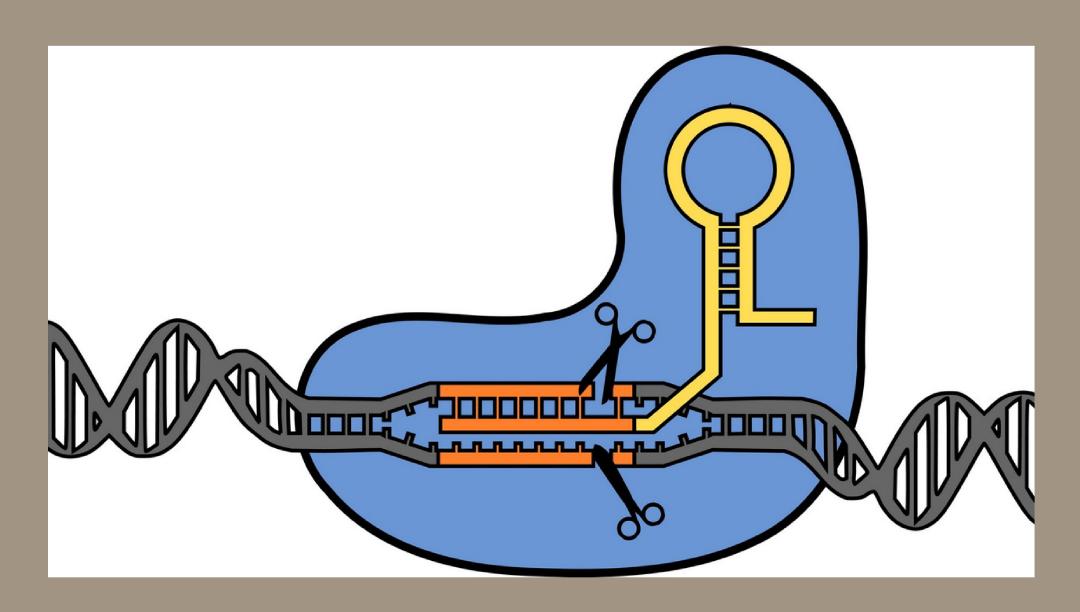


Set me on fire

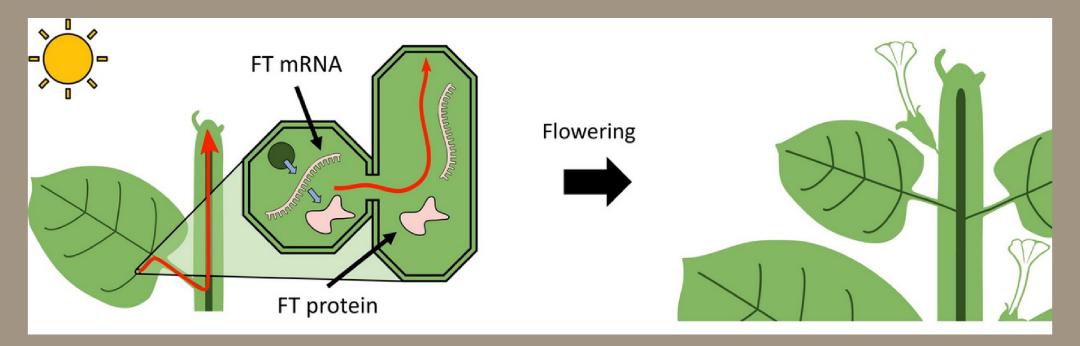
A pool of N. benthamiana seedlings under a fluorescent filter expressing a mCherry. The seedlings were vacuum infiltrated with A. tumefaciens carrying a vector with the transgene.



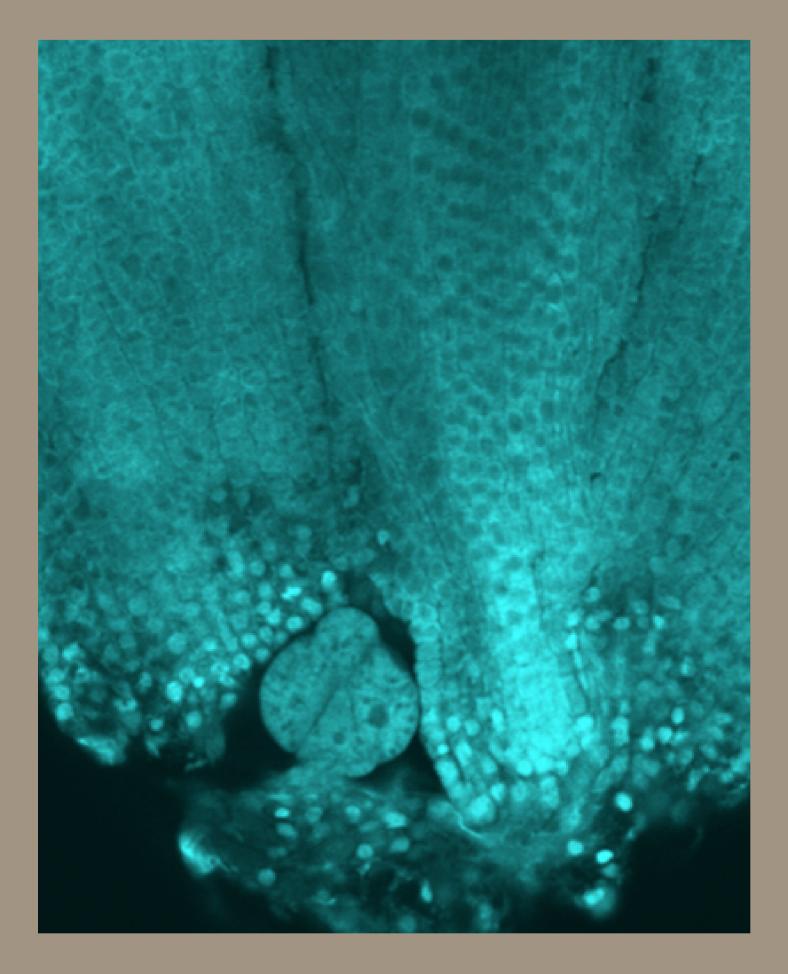
The genetic engineer Agrobacterium tumefaciens incorporating its DNA into a plant cell.



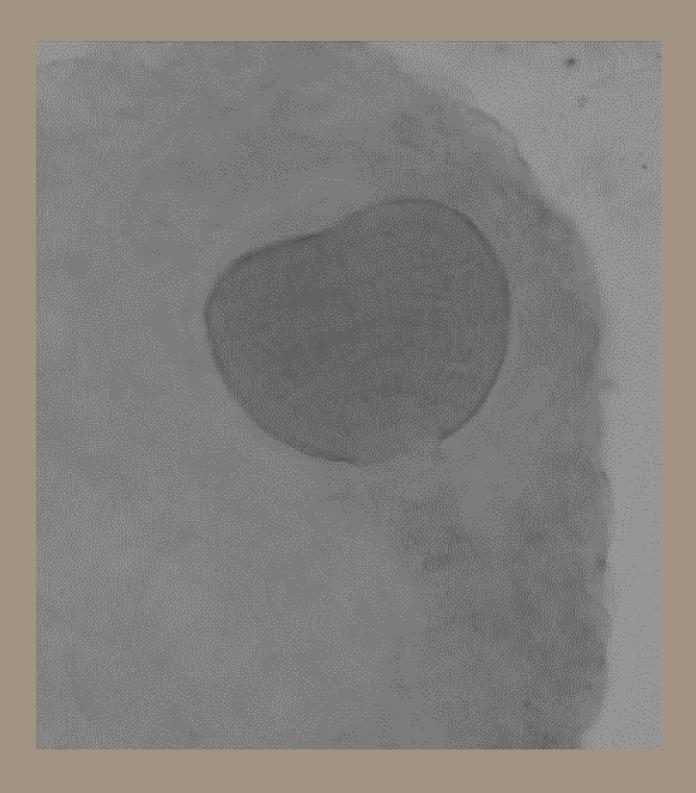
Right on the money
The CRISPR/Cas9 programable nuclease cleaving a targeted DNA location.



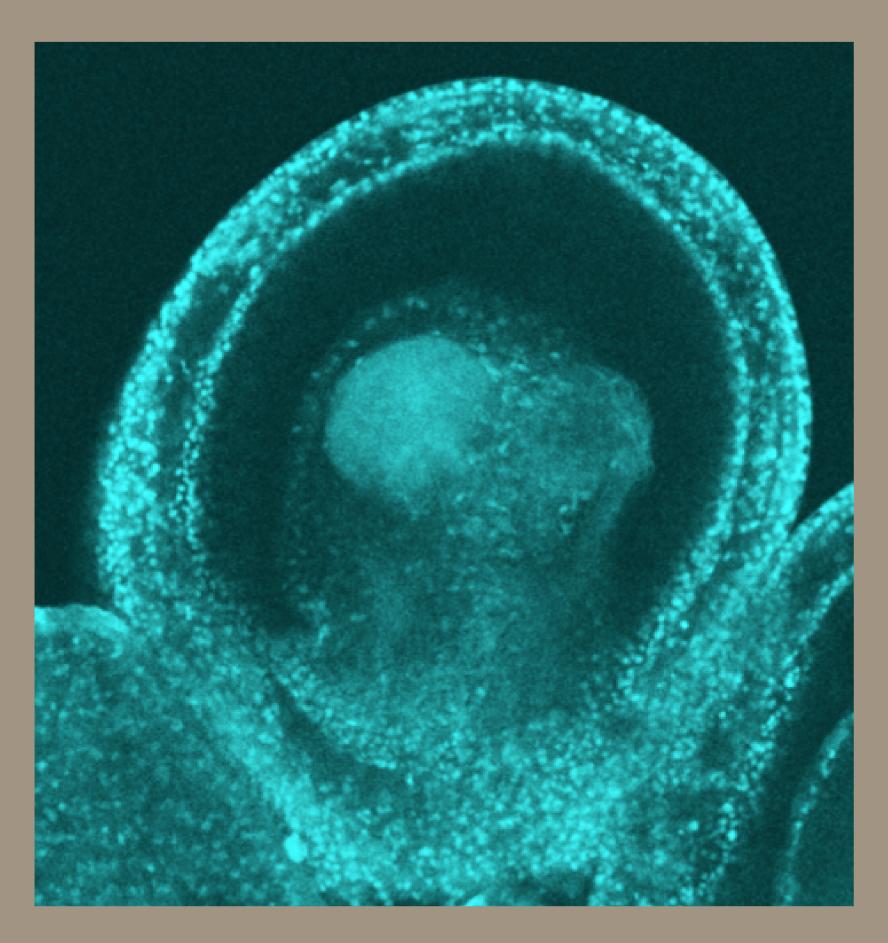
FT, the romantic messenger After FT expression in the plant's leaves, the messenger RNA travels into the apex to signal the generation of flowers.



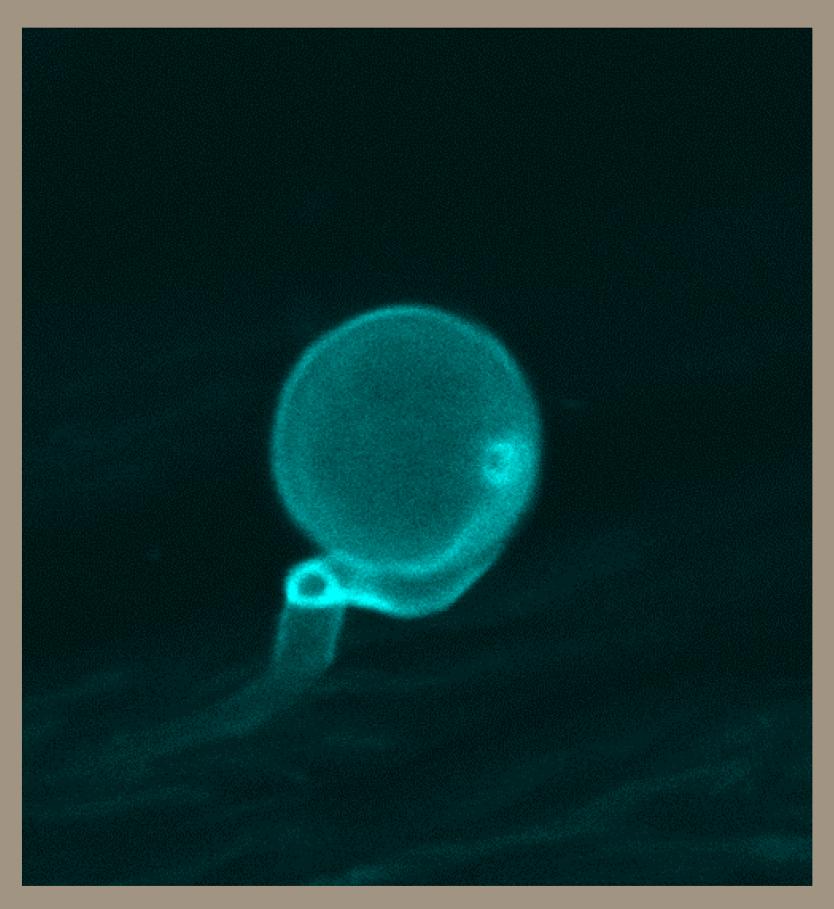
Carlos Barragan Rosillo
Beginning of the embryo sac development.



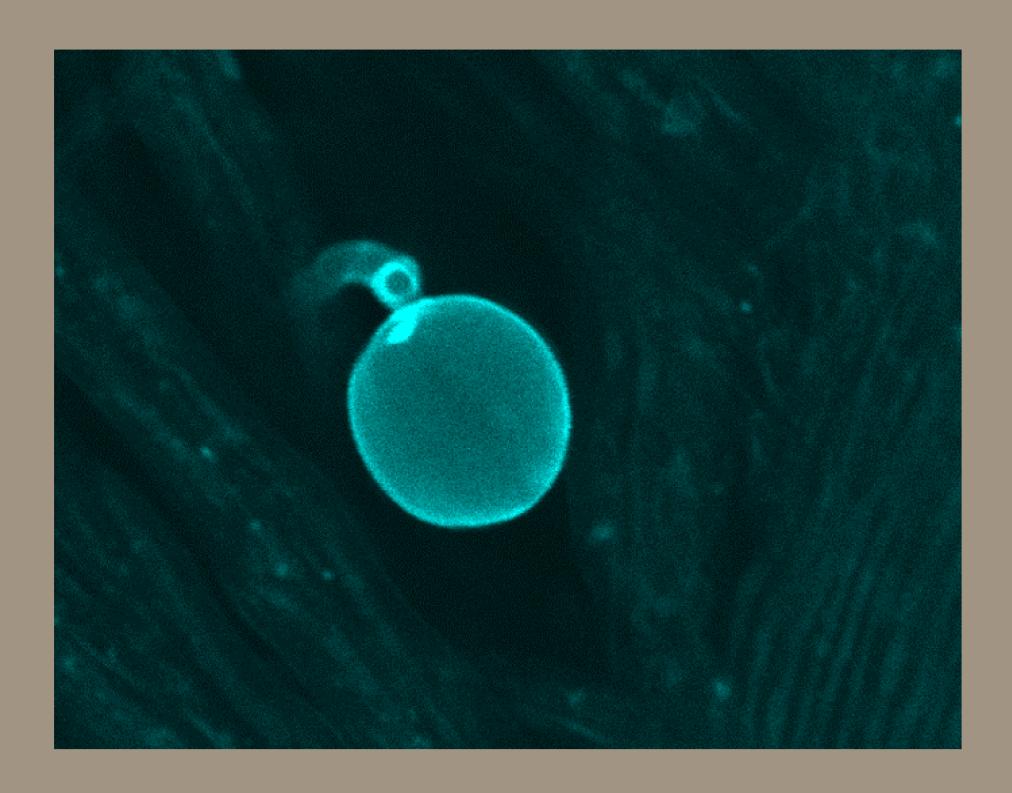
Carlos Barragan Rosillo Chia heart embryo.



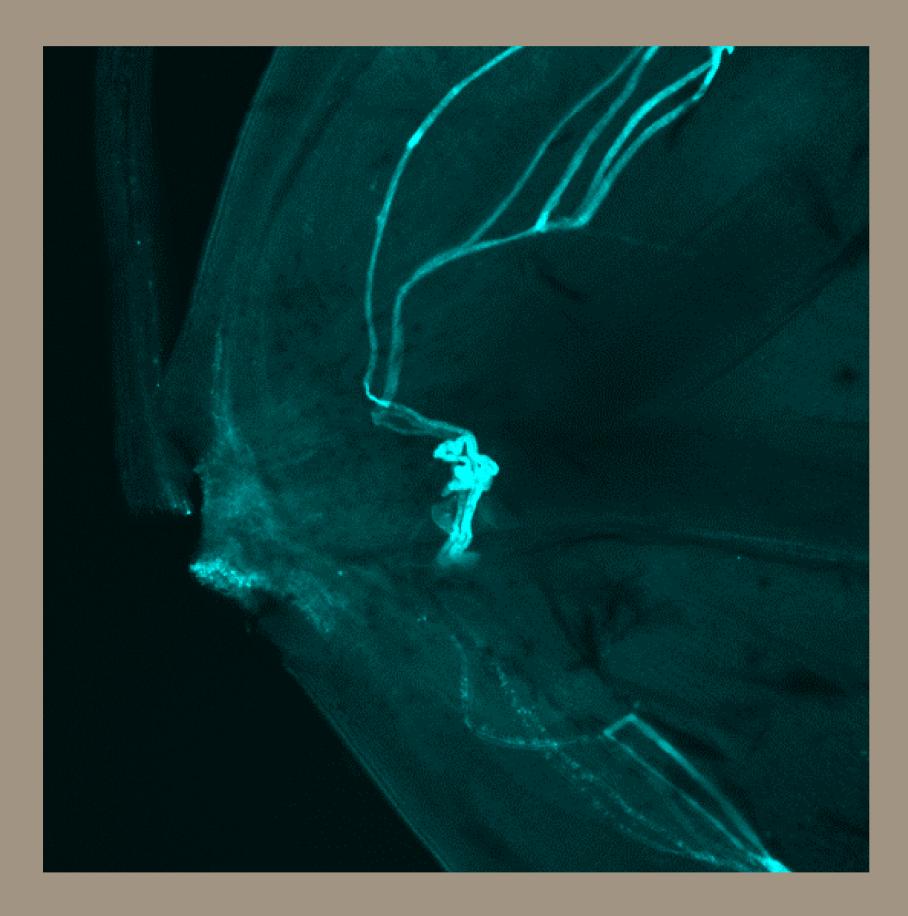
Carlos Barragan Rosillo Preparing for the Inheritance Chía ovule.



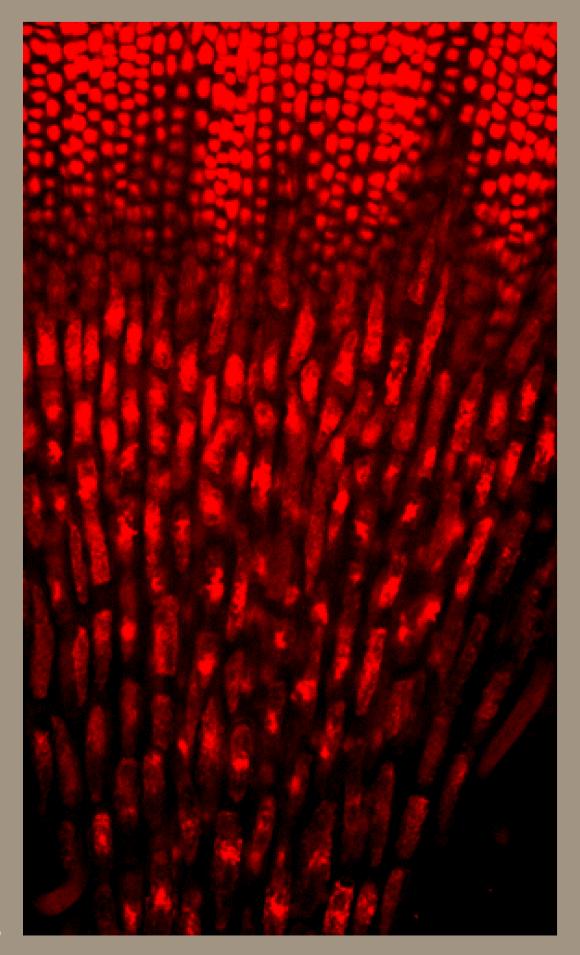
Carlos Barragan Rosillo The beginning of the race Pollen grain.



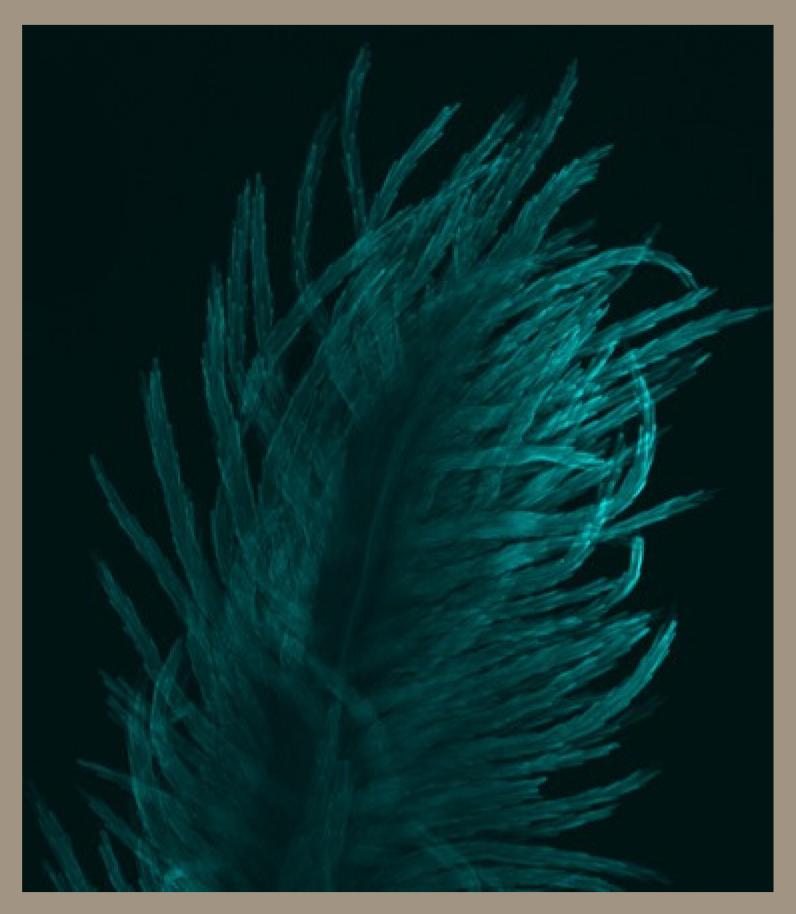
Carlos Barragan Rosillo The beginning of the race Pollen grain.



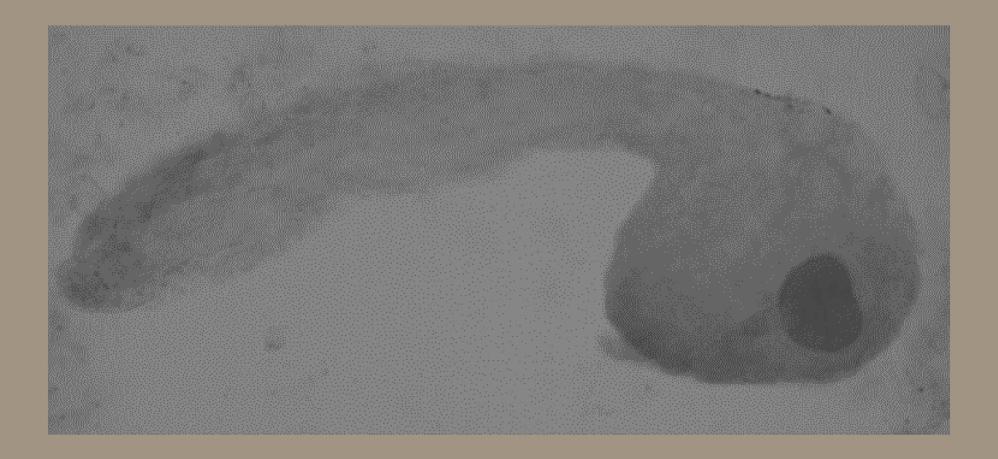
Carlos Barragan Rosillo Competition for the glory Pollinic tubes.



Carlos Barragan Rosillo Chromatin shapes Root tip.



Carlos Barragan Rosillo
Attached pollen grain.

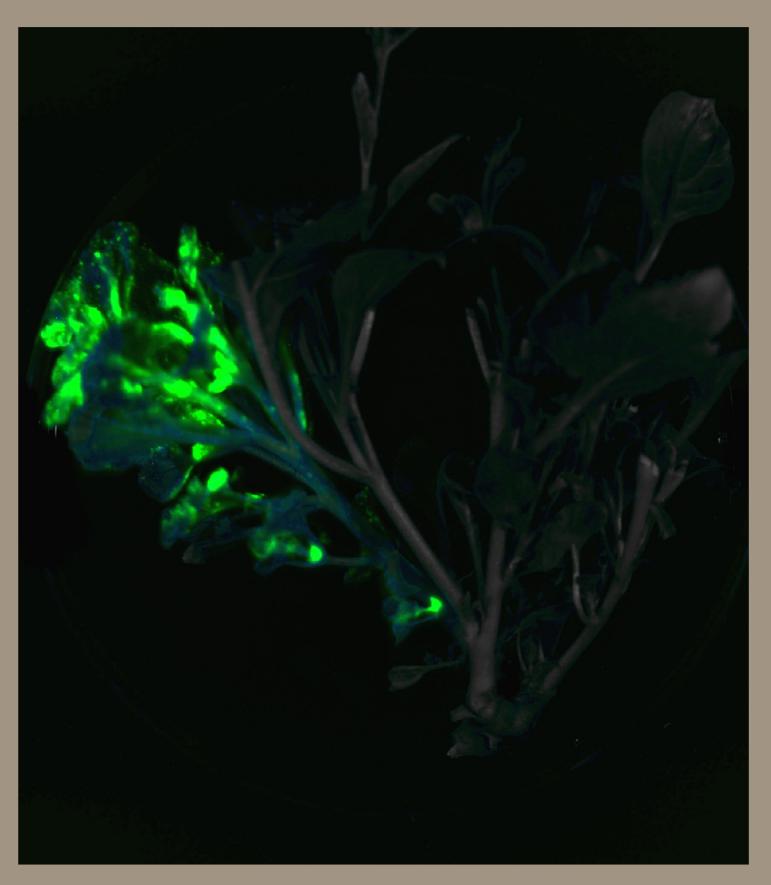


Carlos Barragan Rosillo

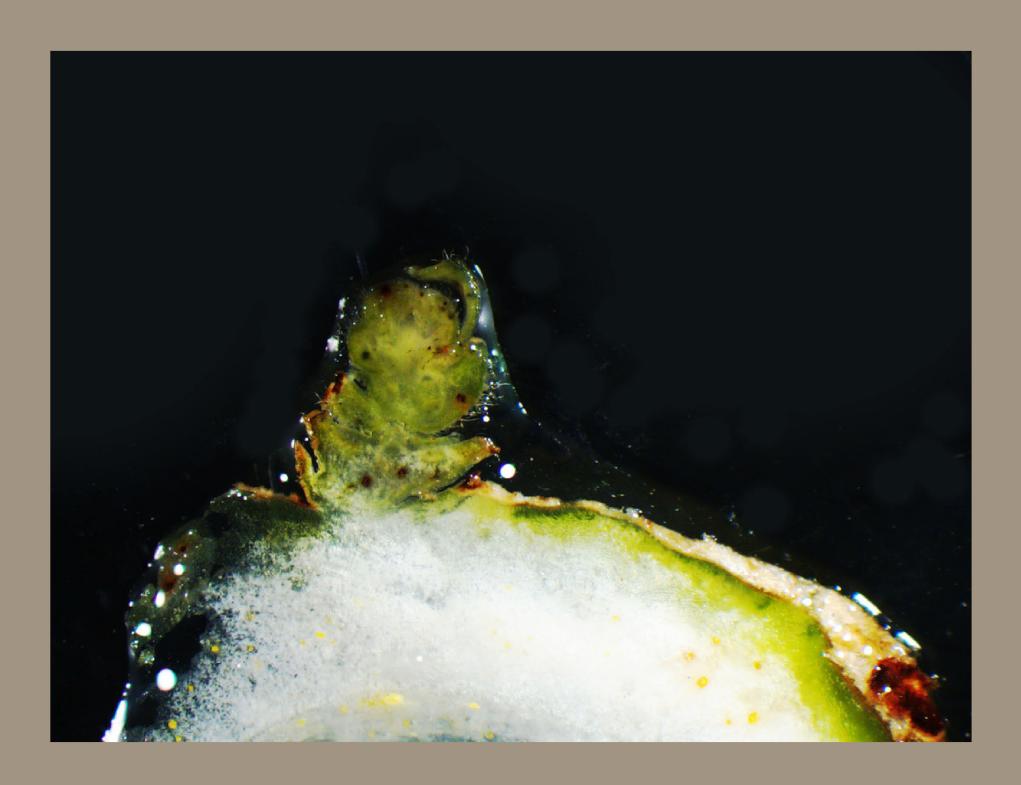
The embryo sac of Chia in a separated chamber.



Dolores Gutierrez Alanis *de novo shoot* phenotype in Tobacco.

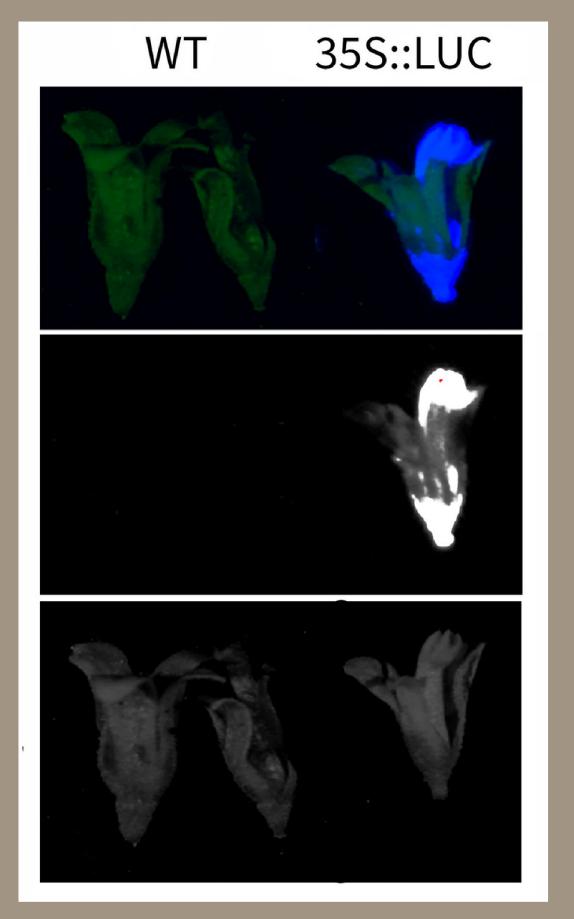


Dolores Gutierrez AlanisTransgenic *de novo* shoot in Tobacco.

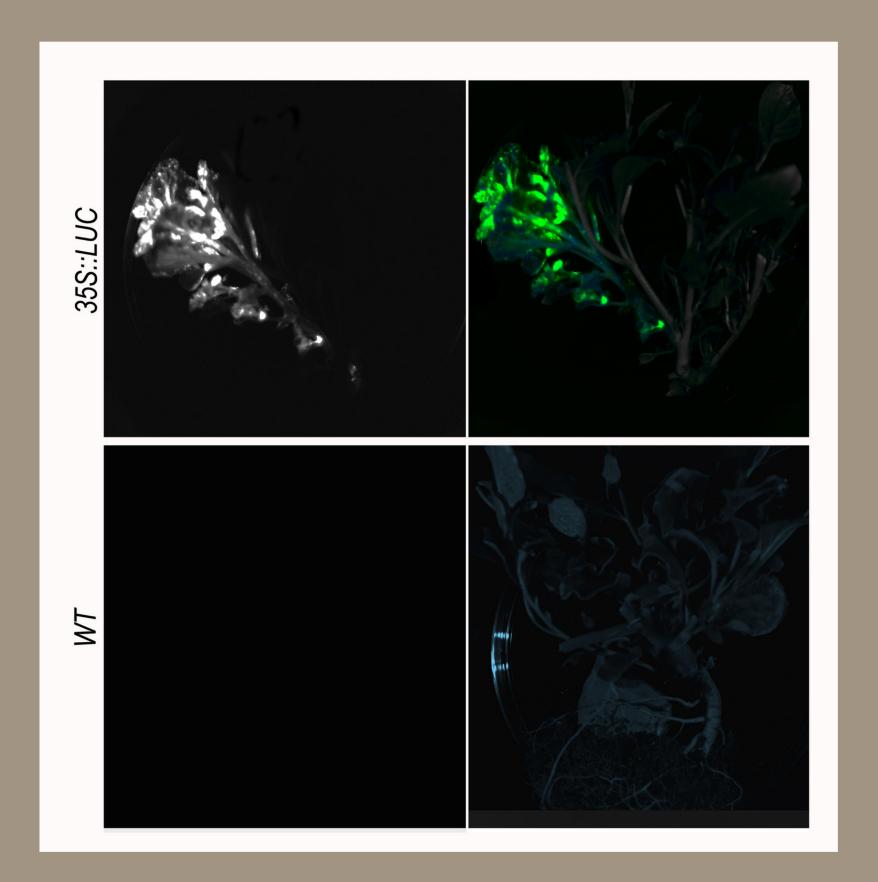


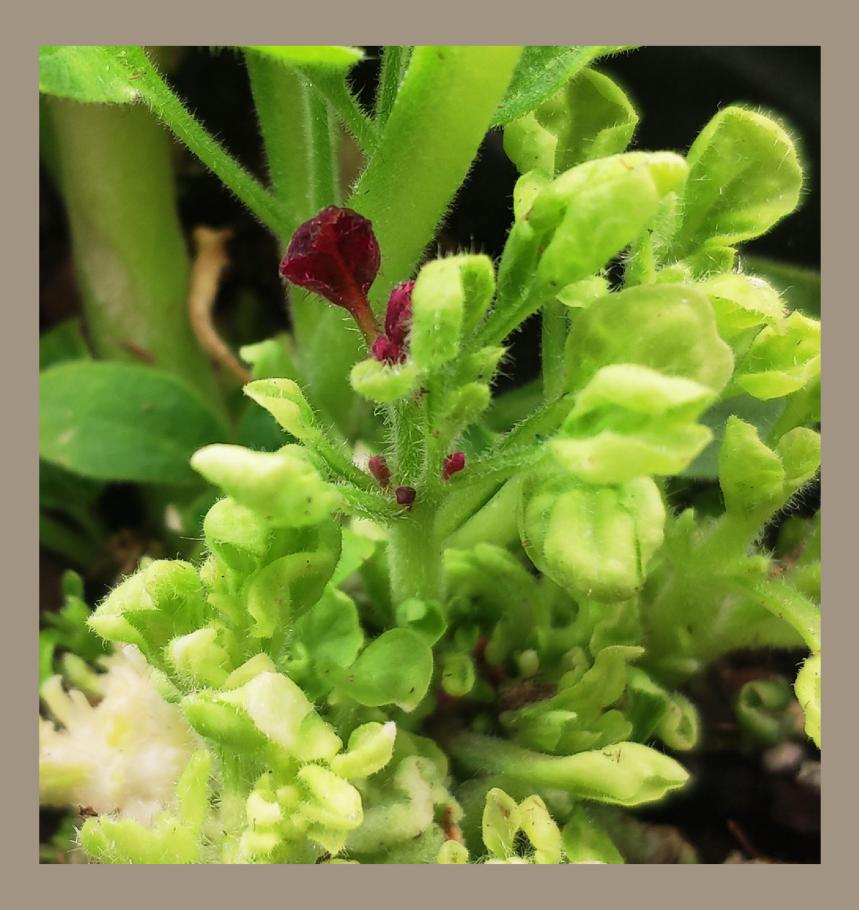
Dolores Gutierrez Alanis

Cross section showing *de novo* shoot induction in cotton callus at early stages of development.



Dolores Gutierrez AlanisFlowers of transgenic tobacco branches.





Dolores Gutierrez AlanisShoot meristems of transgenic tobacco branches.

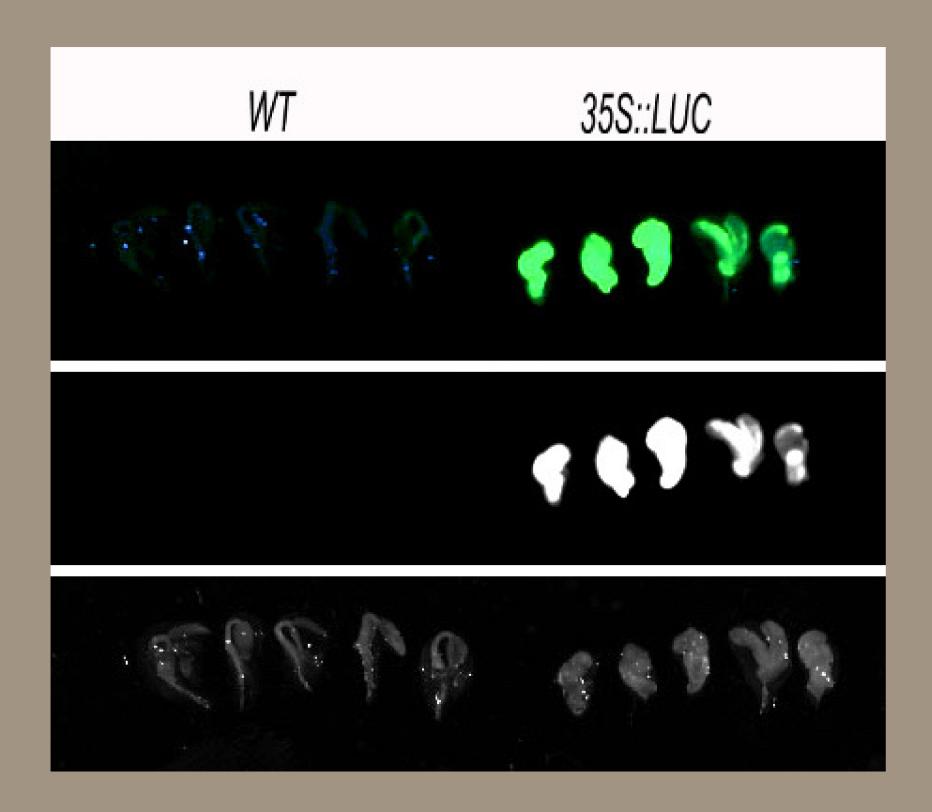


Dolores Gutierrez AlanisCross section showing *de novo* shoot induction in cotton callus.

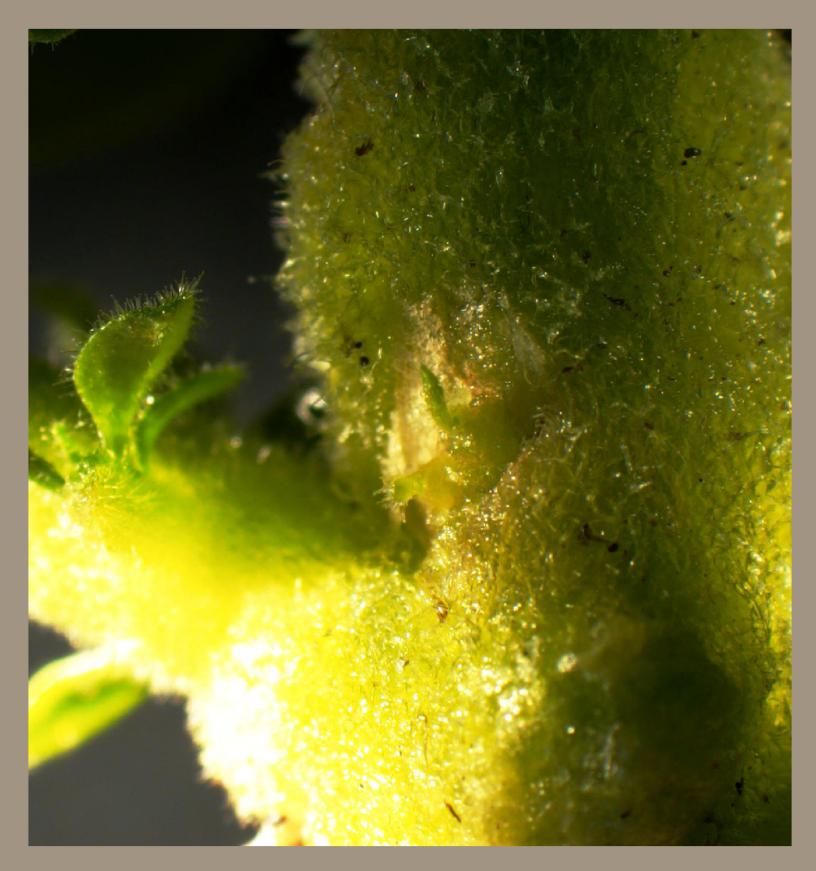


Dolores Gutierrez Alanis

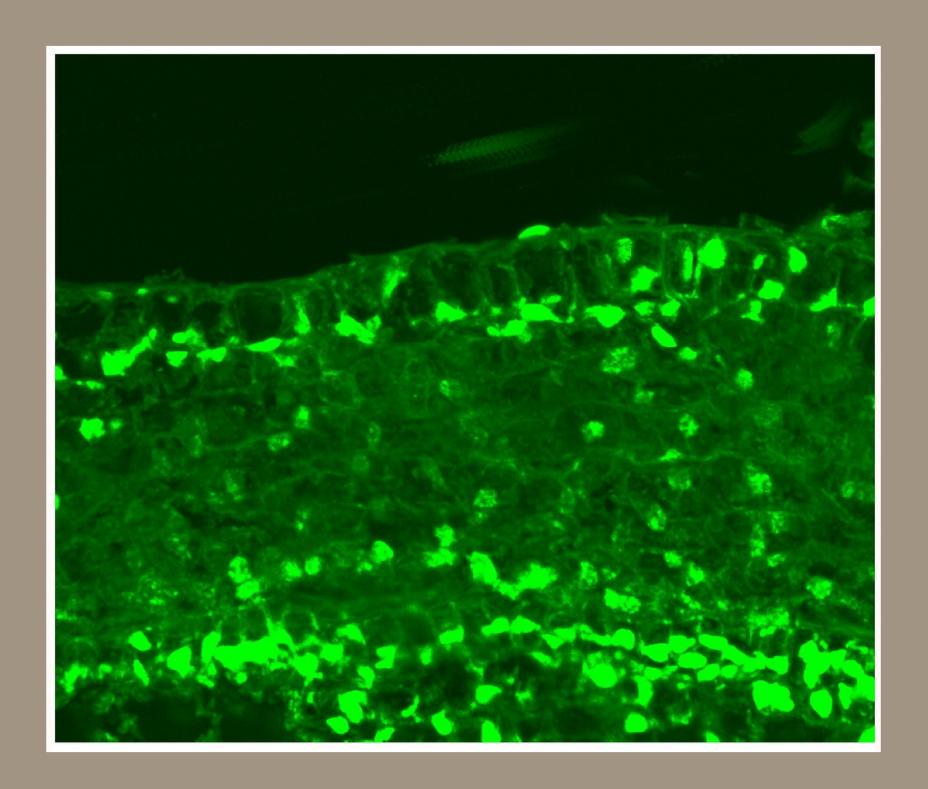
Phenotype of transgenic tobacco seeds.



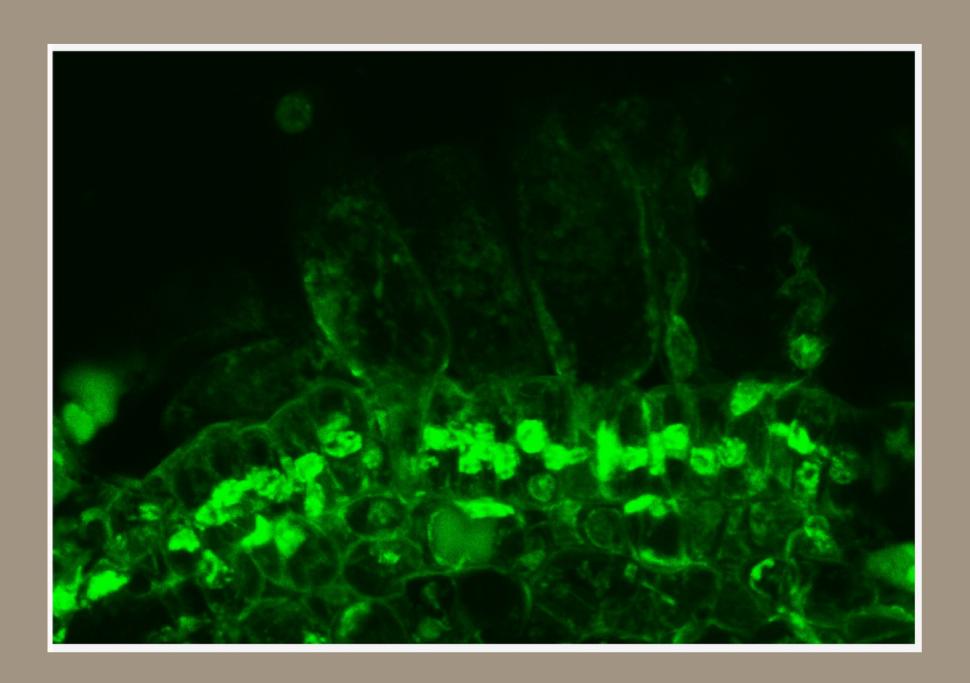
Dolores Gutierrez Alanis Tobacco transgenic seedlings.



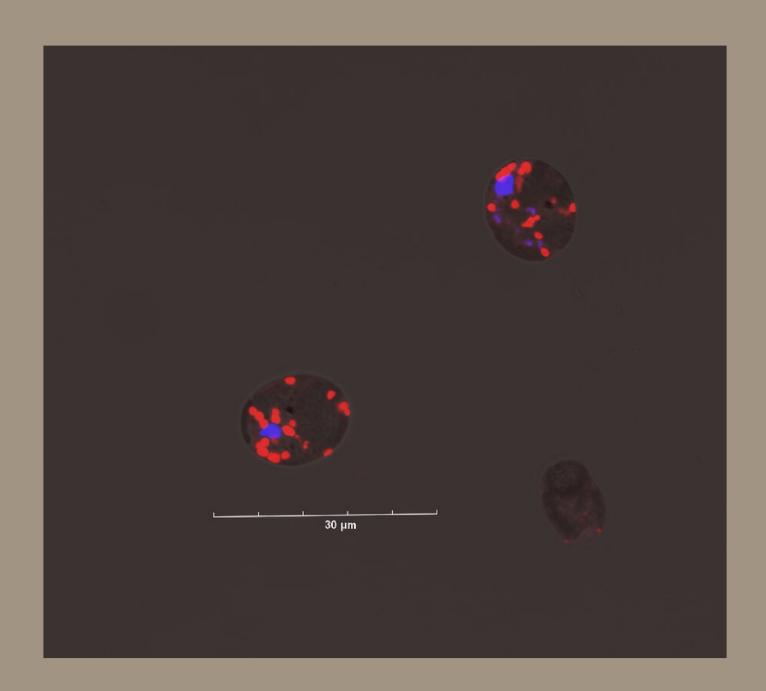
Dolores Gutierrez AlanisTobacco *de novo* shoot induction at early stages of development.



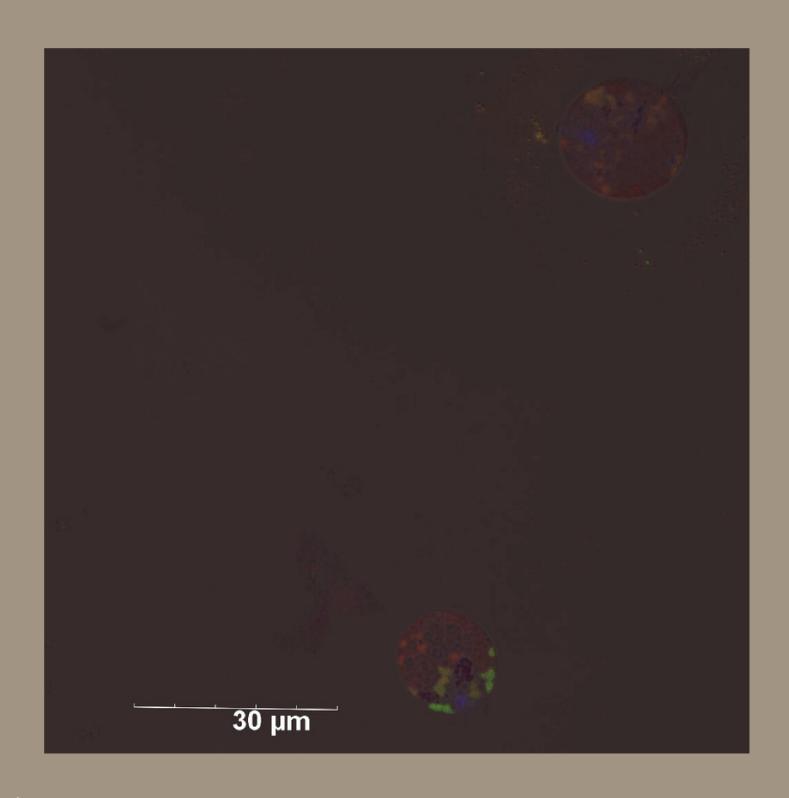
Lenin Yong *The calm before the storm*Cotton fiber cell initials.



Lenin Yong *Rise of the living thread*Emerging cotton fibers.



Matteo TosoniWt mile red 2dd n- 60x.



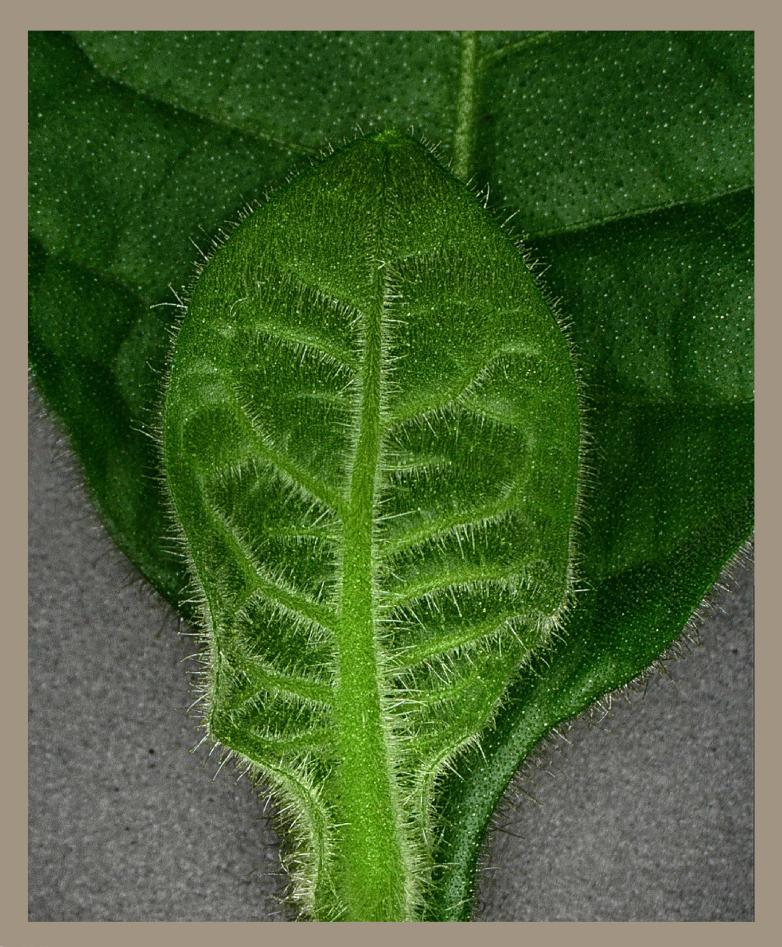
Matteo Tosoni *WT724C.*



Mylea LovellSugarcane aphid from sorghum.



Mylea LovellWhitefly on Soybean.

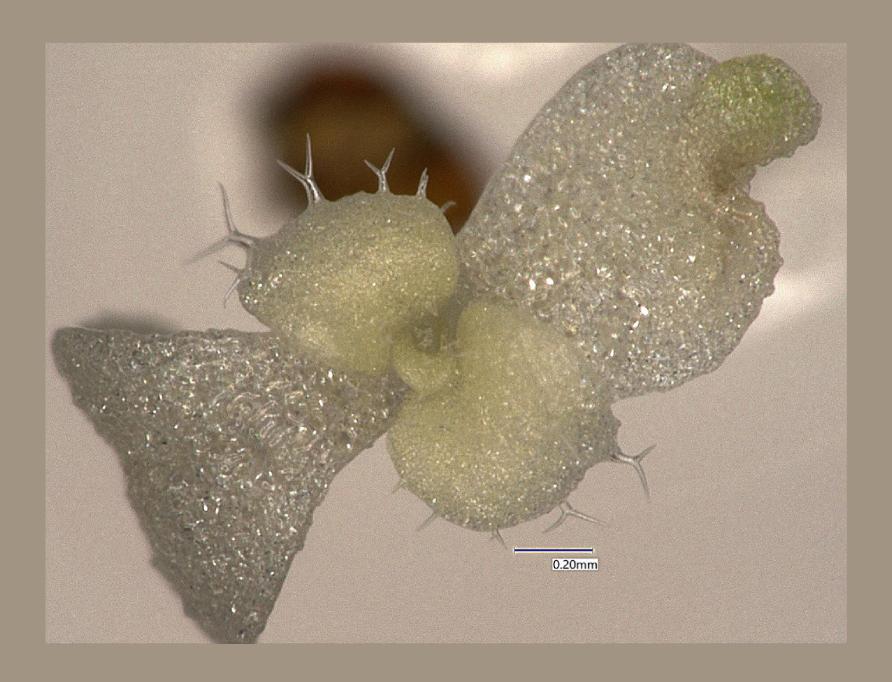


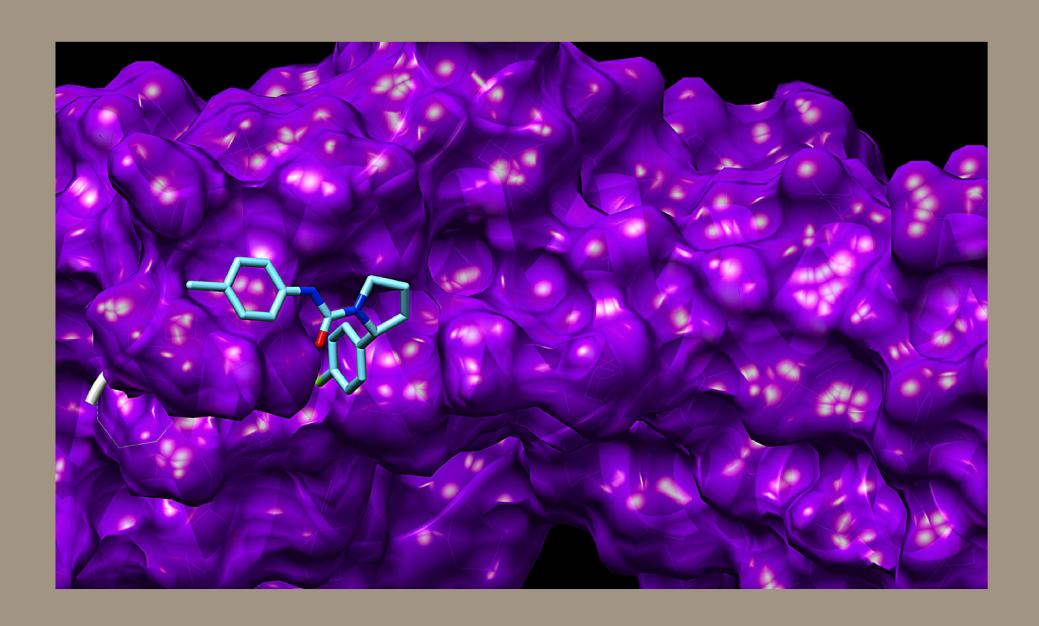
Héctor Rogelio Nájera Adaxial and Abaxial sides of the leaf .



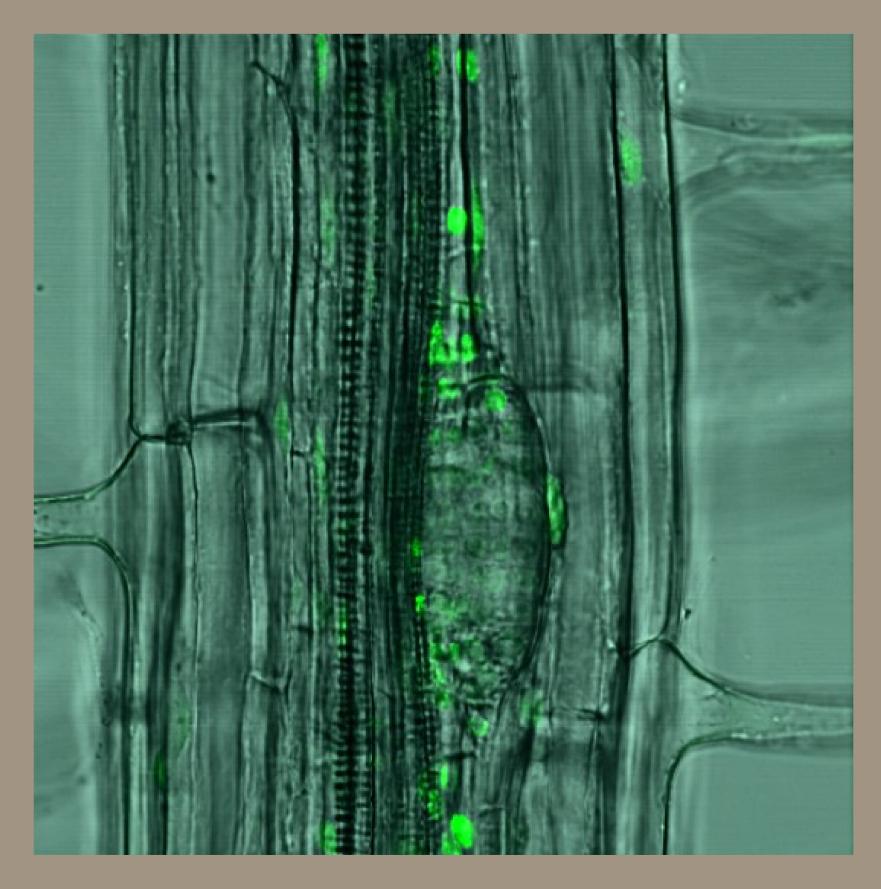
Tobacco trichomes.







Molecular Docking.



Héctor Rogelio NájeraGFP in roots.

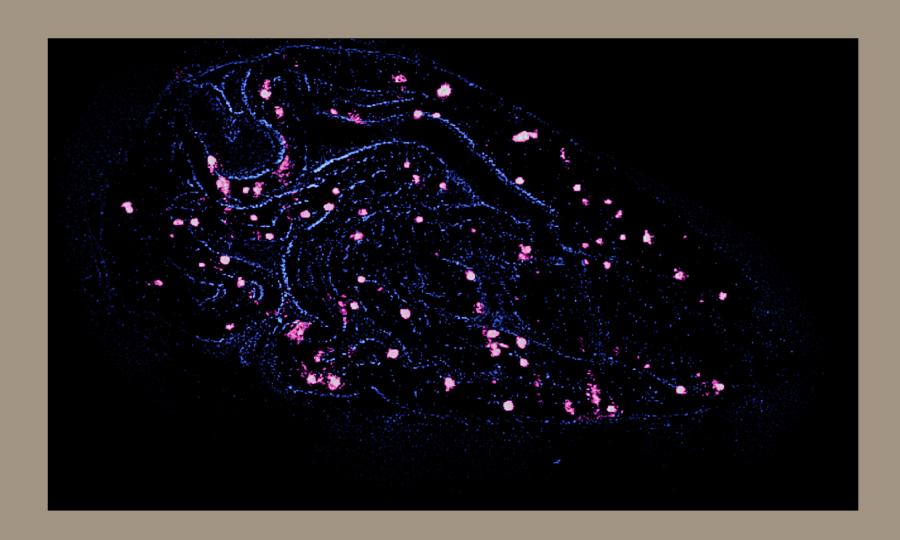


Héctor Rogelio Nájera

MALDI-Imaging of citric acid in roots.



Héctor Rogelio Nájera GFP seeds.



Héctor Rogelio Nájera

MALDI-Imaging of gossypol in cotton seed section.



TEXAS TECH UNIVERSITY

Institute of Genomics for Crop Abiotic Stress Tolerance

