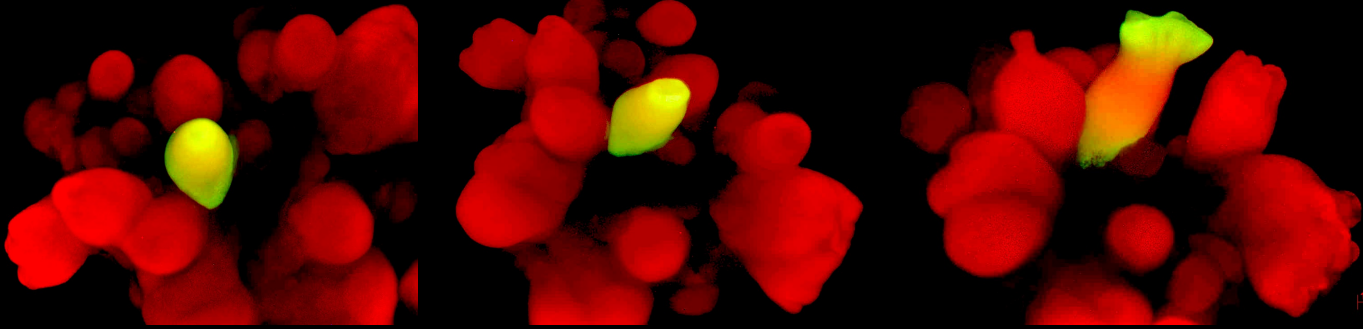


Cotton genetic transformation (GFP filter)



NC State's Specialty Crop Transformation & Gene Editing Lab

The Plant Transformation Laboratory provides innovative solutions, technologies, expertise, training, and services for research and applications related to plant transformation. Our staff and facilities are available for research collaborations; core resources are available for user-driven projects with cost recovery; fee-based plant tissue culture, transformation services are provided for the NC State community and external partners.

Transformation Services

Agrobacterium-mediated

Explants are infected by *Agrobacterium* containing a T-vector provided by the client. Deliverables include antibiotic-resistant plantlets, seeds or callus.

Biolistic-mediated

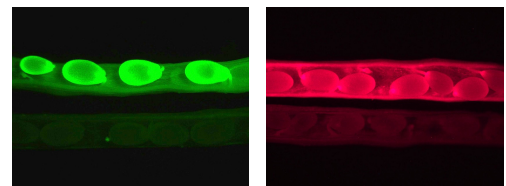
Explants are bombarded using a Bio-Rad PDS-1000/He biolistic apparatus with a T-vector provided by the client.

Transformation Species

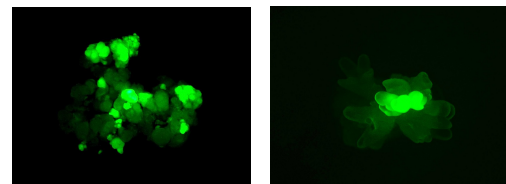
Arabidopsis, *Setaria Viridis*, *Brachypodium distachyon*, Lettuce, Rose, Tomato, Tobacco, Melon, Strawberry, Cherry, Sweetpotato, Cotton, Maize, Soybean

Transformation Projects

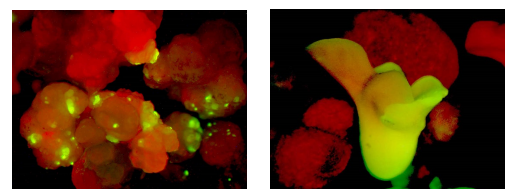
Model plant transformation



Specialty crop transformation



Row crop transformation



Let's Work Together
go.ncsu.edu/ptl