

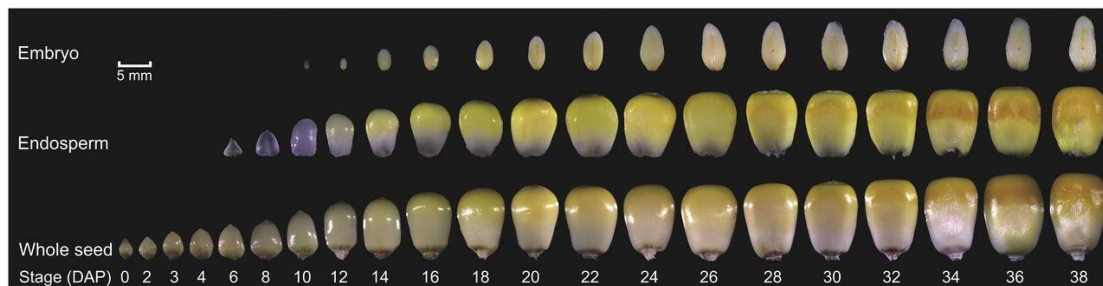
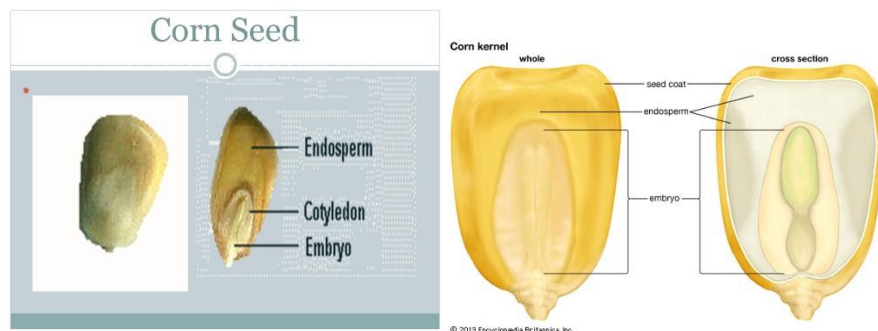
Micropropagation

Micropropagation is the rapid vegetative propagation of plants under in vitro conditions of high light intensity, controlled temperature and a defined nutrient medium.

Micropropagation requires thousands of dollars in special equipment. However, You do not have to have all of this equipment to understand the basic principals of micropropagation.

Using an ear of corn and a small razor blade or knife, carefully remove the embryo from a single corn kernel.

1. Remove a single kernel of corn from the cob
2. Using extreme caution and while pointing the blade away from you, remove the seed coat, a small layer on the outside of the corn seed.
3. Continue to remove layers of the Endosperm until you can see the cotyledon layer. This may take several tries.
4. Continuing to use caution, carefully remove the entire embryo from the seed
5. Try on several kernels until you feel confident you have the entire embryo.



Briefly explain how you removed the embryo. After several tries, which method did you find worked best for you?

Do you think this is a useful way to propagate plants? Why or why not?

This is a free resource provided by Georgia Agricultural Education
Original creator: Melissa Riley, Central Region Horticulture Teacher