

CHAPTER 18**HANDOUT****Cloning a Carrot****BLM 18.4.4**

Purpose: To clone a carrot.

Materials

carrot
microscope
agar
slide
petri dish
clover slip
scalpel
dissecting needle

Procedure

1. Obtain a fresh carrot.
2. Make a cross section approximately three quarters of the way up from the tip.
3. While observing under a microscope, use the dissecting needle to tease out several clumps of lateral meristem cells.
4. Place these cells in a petri dish with nutrient agar.
5. Wait several days and observe under the microscope for any signs of cell growth.
6. Diagram your observations.

Extension

7. Allow your culture to remain for several weeks and continue to observe any changes in the tissue.