

Plant Propagation Lab Exercise

Module 3



PROPAGATION OF HERBACEOUS CUTTINGS

An introduction to plant propagation laboratory exercises by:
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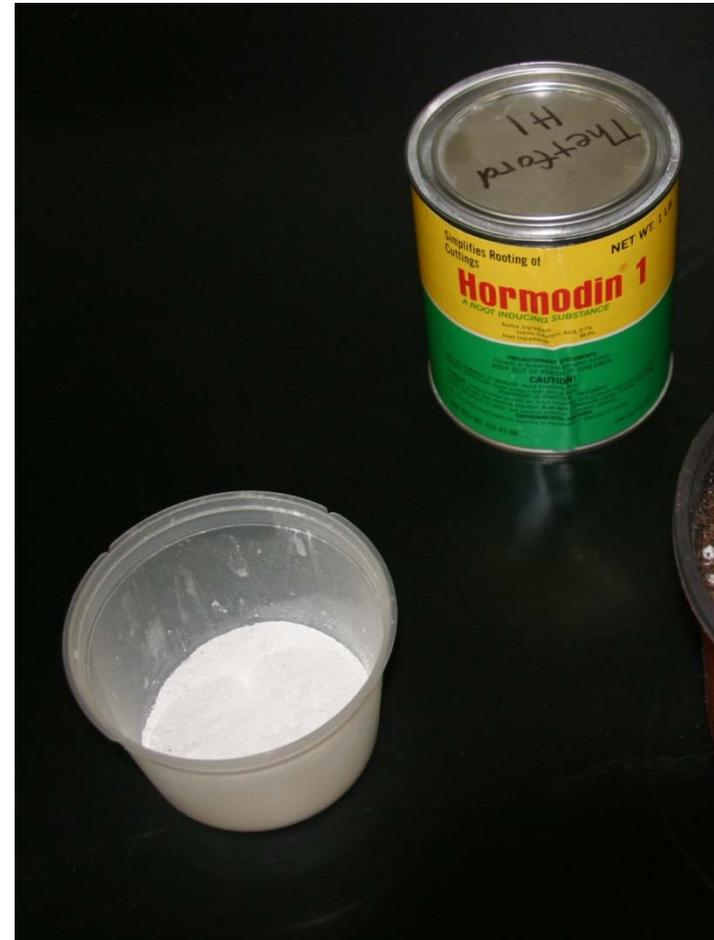


LAB OBJECTIVES

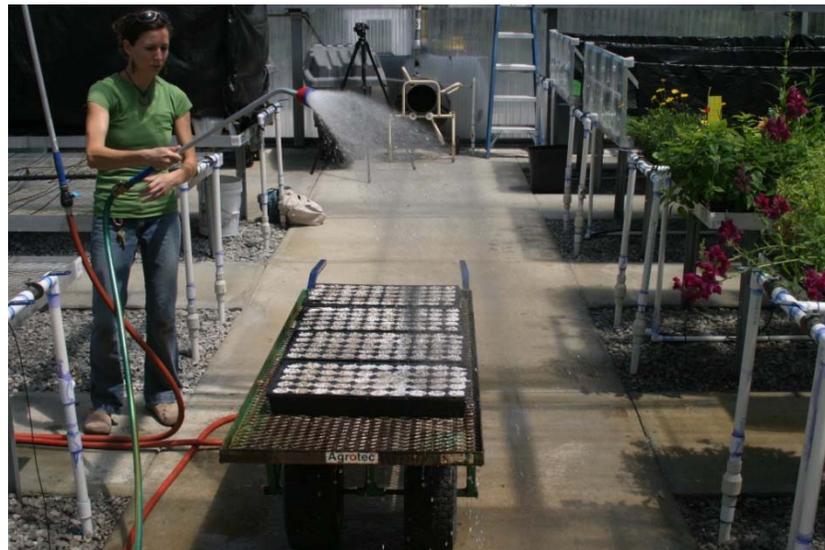
- **Familiarize students with types and methods of herbaceous cuttings**
- **Demonstrate proper procedures for stem, leaf, leaf-bud, and root cuttings**
- **Compare differences in rooting success between herbaceous cuttings treated with and without rooting hormone**



MATERIALS



SUBSTRATE PREPARATION



METHODOLOGY

1. Take 10 cuttings of each of the four types of herbaceous cuttings (stem, leaf, leaf-bud, and root) from plant material provided by the lab instructor
2. Treat half (5) of each of type of cutting with rooting hormone and the other half (5) will remain untreated as control
3. Stick hormone-treated cuttings in one flat and control cuttings in the other flat.
4. Label flats accordingly and place under mist benches



HERBACEOUS STEM CUTTINGS



ROOT CUTTINGS



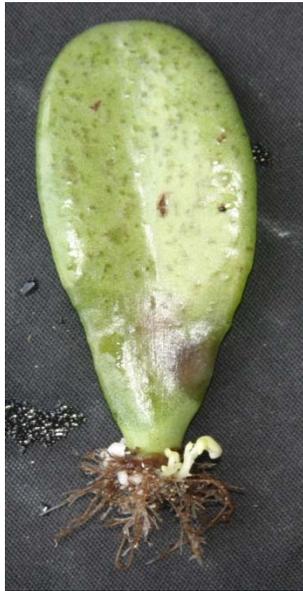
Expose the proximal end of the root just above the surface of the substrate to be stimulated by light.



Hats Whiskers - H



RESULTS AND DISCUSSION



Leaf bud
cutting of
Crassula



Leaf blade
cutting of
sansevieria



Stem cutting of
Strobilanthus



Root cutting
of *Stokesia*

Note the location of root and shoot development for each type of cutting.

