



Plant Propagation Workshop Series

Learn basics of sexual propagation, vegetative propagation, and micropropagation via Zoom

Presenter: Dr. Mark Bridgen, *Professor of Horticulture, Cornell University*
Teacher of plant propagation & micropropagation for over 30 years.

Dates/Times: Wednesdays, February 28-May 8, 2024 (no class on March 20 and April 17)
2-4pm (EST)
3 modules, with 3 two-hour sessions within each module
Participants can attend all modules or register for individual modules.

Fee: \$150 per person/per module. All three modules: \$400. **Save \$50!**

Participants must have access to Zoom to participate in real time. Lectures will be recorded and available to participants after live sessions.

Module #1 – Sexual Plant Propagation: February 28, March 6 & 13

Description: Introduction to plant propagation, biology of plant propagation, terminology, and the propagation environment including microclimatic conditions (relative humidity, temperature, light, & gases), edaphic factors (propagation media, nutrients, and water), and biotic factors. Also, basics of seed propagation and seed dormancy including exogenous dormancy, physical dormancy, seed scarification, chemical dormancy, endogenous dormancy, physiological dormancy, seed stratification, morphological dormancy, and double dormancy.

Module #2 – Vegetative/Asexual Plant Propagation: March 27, April 3 & April 10

Description: Introduction to vegetative propagation, terminology, rooting hormones, cutting propagation, management of stock plants, treatment of cuttings, environmental manipulations of cuttings, propagation media, stem cuttings, (hardwood, semi-hardwood, softwood, herbaceous), grafting (types of grafts), propagation by specialized stems & roots (bulbs, corms, tubers, tuberous roots, rhizomes, etc.), layering, division, and separation.

Module #3 – Plant Micropropagation: April 24, May 1, & May 8

Description: What is plant tissue culture, uses of plant tissue culture, what is plant micropropagation, history of micropropagation, media components and preparation, laboratory supplies, equipment and design, stages of micropropagation: Stage 0 (stock plant selection and preparation), Stage 1 (initiation & establishment *in vitro*), Stage 2 (multiplication), Stage 3 (*in vitro* rooting and conditioning), and Stage 4 (acclimating & hardening off).

Online registration at: <https://plantpropagation.securepayments.cardpointe.com/pay>

For more information contact Shari Romar at sr369@cornell.edu or 917-747-2286.