Plant Propagation Workshop Series

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

Presenter: Dr. Mark Bridgen, Professor of Horticulture, Cornell University
Teacher of plant propagation & micropropagation for over 35 years.

Dates/Times: Tuesdays and Thursdays, January 12-February 9, 2027
2-4pm (EST)
3 modules, Seed Propagation, Vegetative Propagation, and Plant Micropropagation, with 3 two-hour sessions within each module

Fee: $150 per person/per module. All three modules: $400. **Save $50!**
Participants can attend all modules or register for individual modules.

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: January 12, 14 & 19

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: January 21, 26 & 28

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: February 2, 4 & 9

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).

Register online at: https://cupropagationpay.securepayments.cardpointe.com/pay

Questions? Contact Dr. Mark Bridgen at mpb27@cornelll.edu or Shari Romar at sr369@cornell.edu for details.