

FORCING LEAFY EXPLANTS AND CUTTINGS FROM WOODY SPECIES

John Preece^{1*} and Paul Read²

¹Department of Plant, Soil and Agricultural Systems, MC 4415,
Southern Illinois University, Carbondale, IL 62901, USA,
*Fax: + 1 618-453-7457, *E-mail: jpreece@siu.edu

²Department of Agronomy and Horticulture, University of Nebraska,
Lincoln, NE 68583-0724, USA

REFERENCES

- Aftab F., Mansouri K., Preece J. E. (2005). The influence of environment, media, and Zeritol on forcing and *in vitro* establishment of softwood shoots from large stem segments of *Acer saccharinum* L. and *Fraxinus pennsylvanica* Marsh. *Propagation of Ornamental Plants*, 5: 113-118.
- Bailey L. H. (1891). *The Nursery-Book: A Complete Guide To The Multiplication And Pollination Of Plants*. The Rural Publishing Company, New York, XI + 365 pp.
- Brown B. S. (1916). *Modern propagation of tree fruits*. John Wiley & Sons, New York, XI + 174 pp.
- Fishel D. W., Zaczek J. J., Preece J. E. (2003). Positional influence on rooting of shoots forced from the main bole in swamp white oak and northern red oak. *Canadian Journal of Forest Research*, 33: 705-711.
- Hamooh B. T., Read P. E., Yang G. (2001). Forcing solution technology generates quality propagules. *IPPS, North American Region, Plant Propagator*, 13: 15-18.
- Henry P. H., Preece J. E. (1997a). Production and rooting of shoots generated from dormant stem sections of *Acer* species. *HortScience*, 32: 1274-1275.
- Henry P. H., Preece J. E. (1997b). Production of shoots from dormant *Acer* as influenced by length and caliper of stem sections. *Journal of Environmental Horticulture*, 15: 153-156.
- Ledbetter D. I., Preece J. E. (2003). Forcing softwood shoots, rooting, and micropropagating *Hydrangea quercifolia* Bartr. *Propagation of Ornamental Plants*, 3 (2): 3-10.
- Mansouri K., Preece J. E. (2006). The influence of plant growth regulators on budbreak and shoot growth from large stem segments of *Acer saccharinum* L. *HortScience*, 41: 984 (Abstract).
- Preece J. E. (2003). A century of progress with vegetative plant propagation. *HortScience* 38: 1015-1025.
- Preece J. E., Read P. E. (2003). Novel methods in micropropagation. *Acta Horticulturae*, 616: 71-76.
- Preece J. E., Van Sambeek J. W., Henry P. H., Zaczek J. (2002). Forcing the tissue. *American Nurseryman*, 196 (7): 26-30, 32, 34.
- Read P. E., Preece J. E. (2003). Environmental management for optimizing micropropagation. *Acta Horticulturae*, 616: 49-57.
- Read P. E., Economou A. S., Fellman C. D. (1984). Manipulating stock plants for improved *in vitro* mass production. *In: Novak, F. J., Havel L., Dolezel J. (Eds.). Proceedings of the International Symposium "Plant Tissue Cell Culture: Application to Crop Improvement"*, Prague, Czechoslovakia: 467-473.
- Read P. E., Fellman C. D., Economou A. S., Yang Q-G. (1986). Programming stock plants for propagation success. *Proceedings of the International Plant Propagators' Society*, 35: 84-91.
- Read P. E., Yang G. (1988). Response of *in vitro* explants chemically treated via forcing solutions. *Combined Proceedings of the International Plant Propagators' Society*, 38: 406-408.
- Read P. E., Yang G. (1991). Plant growth regulator effects on rooting of forced softwood cuttings. *Acta Horticulturae*, 300: 197-200.
- Van Sambeek J. W., Preece J. E. (1999). Forcing environment affects epicormic sprout production from branch segments for vegetative propagation of adult hardwoods. *Combined Proceedings of the International Plant Propagators' Society*, 49: 156-158.
- Van Sambeek J. W., Preece J. E., Coggeshall M. V. (2002). Forcing epicormic sprouts on branch segments of adult hardwoods for softwood cuttings. *Combined Proceedings of the International Plant Propagators' Society*, 52: 417- 424.

- Yang Q-G., Read P. E. (1990). Use of forcing solution to study plant growth regulator effects on Vanhoutte's spiraea cultured *in vitro*. HortScience, 25:124.
- Yang Q-G., Read P. E. (1992). Pre-forcing treatments influence bud break and shoot elongation in forced woody species. Journal of Environmental Horticulture, 10: 101-103.
- Yang Q-G., Read P. E. (1993). *In vitro* culture of 'Vanhoutte's spirea explants from "secondary cultures" and dormant stems forced in solutions containing plant growth regulators. Plant Cell, Tissue and Organ Culture, 33: 25-30.